Chemical Week INDEX

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McGRAW-HILL, INC.
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facial prosthetic clinic	Dec	15	42	ronmental agencies	Nov	10	27	Mideast	Sept	22	9
Andre, Herman W.—Great Lakes Chemical's financial v-p and secretary:				spurs specialties sales	Aug	25	47	River System	Sept	8	24
This chemist is at home in the lab and in Wall Street Aniline—Market recovery has producers	Oct	13	88	get IMC technology	Nov	24	76	German firms would be mounted on a	Oct	12	71
studying expansion plans (table)	Aug	11	23	Assn. of Western Railroads-Environ-				Floating plants: Designers believe	Oct	13	71
Animal Drugs—German veterinary agent, Droncit, knocks out tapeworms in all				mentalists and railroads team up to bar waterway projects	Dec	15	10	barge-mounted plants are the wave of the future	Nov	24	70
stages of development	Aug	18	31	Atomic Power				LNG tank towed on a specially constructed barge from Charleston,			
Animal Feed				A-plants get the nod from voters in six states	Nov	10	28	S.C. to Quincy, Mass	Dec Sept	15 15	18
FDA setting limits on carcinogens that can be added to animal feeds N	Dec	8	27	Can Carter debottleneck nuclear power? Likely outcome: need for more ura-				Batteries			
Nitrofurans as antibacterial additives for poultry feeds: FDA proposes ban	A	25	23	nium processing (chart & table) Fast-breeder, gas-cooled nuclear reac-	Nov	17	17	Chemical Week 300—report (tables) Aug 25-37	Nov	24	41
Peanut shells for animal feed PBB study in Michigan	1404	17	46 31	tors get a boost in Japan N Ford mapping new policy on nuclear	Aug	25	44	Electric vehicles poised for a comeback: new batteries are in the running		-	
Straw is converted into feed containing up to 12.5% protein	Oct	20	39	power	Oct	13	18	(tables)	Dec	1	31
Anorectics see Drugs —Obesity drugs Anthocyanins—Food colors from natural	1			clear equipment overseas but provide	0	00	40	development of advanced batteries Sodium-sulfur battery	Sept	29 11	20
sources Anthraquinone—Dynapol's polymer-	Aug	4	22	tougher safeguards N Hanford blast hits 10	Sept	29 8	12 24		Aug	1,	20
bound food colorants	Aug	4	21	Hanford blast becomes campaign issue	Sept	15	9	Alcoa and Jamaica to form mining ven-	0	20	20
Antibiotics				ERDA cites degraded resin beads as probable cause of nuclear accident	Nov	3	17	ture, JAMALCO N Oct 13-17 France: Plant to make alumina from non-	Dec	22	20
Ampicillin trihydrate will be first drug covered by maximum cost program N	Oct	13	18	Water leak at reactor	Dec	1	16	bauxite materials will start up N	July	7	32
Doxycycline: USV Pharmaceutical will discontinue marketing	R Oct	27	25	nomical than coal	Dec	8	19	Belgium Cemstopel's process for chemical dis-			
Hoechst isolates neomycin-B strain from Indian soil	N Aug	11	37	U.SEuropean team N NRC charged with covering up dangers		10	61	posal of industrial waste N Ethyl S.A. will begin production at alu-	July	28	42
Spectinomycin can fight new VD strain resistant to penicillin	Nov	17	20	at atomic power plants N NRC imposes a moratorium on issuing	Dec	22	14	minum alkyl chemicals plant in Feluy	Oct	6	13
				permits for construction or full-power operation of nuclear power plants		25	25	Polypropylene buildup N	Dec	8	41
Antifreeze Ethylene oxide and glycol producers	8			Oak Ridge, Tenn. nuclear weapons components operations fire inquiry		3	17	Benzene Ashland ready to start up new benzene-			
count on fall upturn	Oct	13	22 38	Sweden debates adding nuclear power			18	based maleic anhydride capacity at	Oct	12	70
Radiator flushes: There may be prob- lems ahead as antifreeze life is	S			plants N Nuclear energy development plans		25		Neal, W. Va. N Sept 29-33 Benzene or butane feedstock for maleic		13	79
Zerex: Du Pont agrees to continue to	0		77	No Swedish atom ban	Oct	15	40	anhydride? The verdict is not in yet NIOSH labels benzene a carcinogen, wil		13	79
market antifreeze for PPG	R Aug	25	25	Texas A&M symposium hears Shell Oil's Roorda discuss nuclear power	Sept	22	17	be subject to new limits North Slope crude oil: Benzene and xy-		1	10
perspirants: new packaging and in gredients compete for use	-	8	29	Thermal pollution see Environment Water Pollution				lenes could give Alaska crude eco- nomic advantages	Nov	17	43
Antitrust				Uranium see Uranium				Output up: first-half production	Nov	24	24 62
Antitrust bill N Sept 15-10		t 22	17	Australia Alumina: Reynolds and Alcoa to form a				Prices N Oct 20-25	Dec	8	14
Certain-teed agrees to shed Shelbyville Ind. glass-fiber insulation plant it ac	-			consortium of international companies to establish a refinery	3	15	17	Betalaines—Food colors from natura sources		4	22
quired from PPG in '73	at			Asbestos find looks promising	July	28 15	42	Biocides			
fertilizer markets	N July	21	29	Business picks up	Dec			Mercurial ban softened	Sept	8	27
hinted: FPC's Zimmet calls for a Justice Dept. antitrust investigation		25	24	wastes from coal preparation plants. N Mining firms get investment break N	Aug	25	34 18	Vinings Chemical tackles international market with specialties for papermak		45	00
				Shell's PP plant	July Sept	28 29	42 34	ing Bis-Chloromethyl Ether—Dow tests show	1	15	39
Area Development Muskegon, Mich. waste-treatment 'farn	n'			West German coal liquefaction equip- ment and know-how may be traded				BCME to be no problem in textile processing	Aug	4	40
irrigates and fertilizes land, attracts in dustry	. Ser	t 15	51	for Australian coal, aluminum and iror ore	1	11	25	Bisphenol—Speichim will build bispheno unit in Russia	Sept	15	21
Texas may be losing out as the preferre petrochemical area of the U.S., Dow	d 's			Automobiles				unit in Russia			
Pruitt tells energy and feedstock symposium at Texas A&M	S	ot 22	17	Air bags still up in air	Aug	11	16	Treasury	Dec	22	20
	301			Air bags: no for now Air pollution see Air Pollution		15	18	boats	Sept		20 20
Argentina Gas del Estado calls for bids for gas es	X-			CPI goods for autos: '77 gain big, '76 bigger (charts)	Aug	18	11		Sept	23	20
Natural gas: Price of Bolivian gas to A	r-			ESB, Triad and Chrysler	V Dec	8	48	Bolivia Natural gas' price to Argentin	a		
gentina increased	N Jul			Electric cars: federal funding spun development of advanced batteries	Sept	29	20	Pesticides plants dispute	V July	28	33
and the same of th		-									
Aroma Chemicals—International Flavor aroma chemicals plant in Union Beac N.J., explosion and fire	rs' h,		17	Electric vehicles poised for a comeback new batteries are in the runnin (tables)	9		31	Boranes—Research on boranes coul open up new bigger uses for these ver satile reagents	d	15	33

Amoco licenses Du Pont's patents on				Liquid Air will build fourth air-separation unit	Aug	11	9	of several methods producers are li- censing	Aug	11	35
plastic bottles made from PET N Ban on nonreturnable beverage bottles:	Sept	15	9	'77 worldwide outlook: growth will hinge				Carbon Black			
Two out of four states approved bans. "Sottle bills": Colo., Me., Mass., Mich.	Nov	10	28	on new governments, exchange rates (charts & tables)	Dec	22	17	Carbon Black Channel black dye banned	Sept	29	19
voters will decide whether to set man- datory deposits on beverage containers; three of the measures also				the U.S. likely to exceed the projected average	Sept	8	28	several chemicals for food, cosmetic use	Sept	8	18
ban pull-tab cans	Oct	13	27	ropean customers in the early 1970s				Petroperu plans expansion at Talara plant	July	14	21
Minneapolis bans sale of nonreturnable				disclosed	Dec	8	42		,		
1-gal HDPE milk bottles	Nov	24	26	Potash: Saskatchewan Premier Blakeney assures fertilizer users that Saskatchewan potash will remain				Carbon Dioxide Airco's Industrial Gases Div. will build	folia	21	10
PE terephthalate bottles; Du Pont				competitive	Sept	29	26	CO2 levels in air and greenhouse effects:	July	21	18
declares that it will take steps to enforce its patents if they are infringed				Potash: Saskatchewan province acquir-		40	15	report	Oct	20	39
upon	Oct	6	17	ing Duval's mine and mill R Potash capacity expansion N	Aug	18	57	industrial gas output snows good gains	Oct	13	37
Plastic: Beverages pace boom in plastic			41	Quebec election not expected to hurt				Liquid Carbonic plans projects here and			
Plastic: Commerce Dept. report	Aug	25	27	business N Tar-sand development slows down N	Nov Sept	15	62	abroadN	Oct	20	9
Plastic: Continental Group to make				Tax bite softened N	Sept	15	21	Carbon Monoxide			
polyester beverage bottles N Plastic bottles get OK	Sept	22	19	Uniroyal's strike agreement in Kitchener, Ont., rejected	July	7	21	AlChE meeting: R. K. Jordan says a big carbon-monoxide-based industry			
Brazil				Ont., rejected Uranium recovery from unclarified leach				could be built if steel-mill blast fur-			
Camacari: Northern Brazil's \$2-billion				liquor is being pioneeredN	July	21	36	naces were operated with oxygen Cosorb technology marketed by Ten-	Sept	8	53
petrochemical complex off to a		14	42	Cancer				neco is ready for recovering ethylene			
Fertilizer complexes contracts to	July	14	43	Animal feeds: FDA setting limits on carcinogens that can be added to				following commercial success with	Dec	15	31
Pullman Kellogg N	Dec	8	14	animal feeds N	Dec	8	27	Energy from CO will be the subject of a		-	
Fertilizer use on the rise N Fuel rationing is under consideration . N	Dec Oct	8 27	41 27	Asbestos see Asbestos Battelle will study cancer potential of				research program at Battelle N Toluene may be the raw material for	Aug	11	37
Investments in chemical and pe-				chemicals N	Aug	18	23	polyester fibers in Japan N	Aug	4	40
trochemical ventures this year will be a minimum of \$1.3 billion	July	28	40	Benzene labeled as carcinogen, will be subject to new limits N	Sept	1	10				
Kraft pulp mill planned by Crown Zetter-				Cetylpyridinium chloride mouthwash in-	oop.			Catalysts Borg-Warner's DRI-CAT 3, dry palla-			
bach		17	22	gredient may help in battle against cancer	Oct	27	44	dium-containing catalyst for electro-			
gradable detergents passed	July	7	42	Conference on Origins of Human	00,			less (non-electrolytic) plating of metals	Sept	1	40
Monsanto plans PPS facilities N Monsanto thinks big in Brazil	Sept Sept	15 15	9	Cancer: cancer experts debate whether there are threshold limits for				Ethyl S.A. will begin production at alu-	oupi		10
Petrochemical drive may be curbed as				chemical carcinogens	Sept	22	29	minum alkyl chemicals plant in Feluy, Belgium N	Oct	6	13
government attempts to cut giant foreign debt and trade deficit: Brazilian				Dow Chemical study: Styrene looks good so far in toxicology tests N	July	7	32	Grace's coal liquefaction catalysts un-			
Petrochemical Congress	Dec	1	27	Dow tests show HCBD is carcinogenic,				dergoing tests	Nov	3	18
Bromochlorodifluoromethane — Formu- lations employed in home fire extin-				but there may be threshold limits N	Sept	8	64	plants knocks out NOX	July	28	33
guishers	Dec	22	30	Du Pont's Carney's Point, N.J., nitro- cellulose plant: Cancer data listed	July	28	26	lodine markets Lithium Corp.'s dibutylmagnesium, a	Dec	1	24
Burtis, Theodore A.—Sun Co.'s president: He's aiming to thrive on diversity		17	56	Du Pont's report amplified	Aug	4	14	new high-efficiency catalyst, making			
	1404	"	50	eight N.J. plants from '56 to '74	Aug	11	13	pilot-plant debut N Montedison will use new polypropylene	July	14	17
Butadlene Economical starting material for bu-				Eli Lilly resumes production of herbicide, Treflan trifluralin, after tests show how				technology in Novamont's La Porte,			
tanediol says Chem Systems N	Nov	24	75	herbicide is not carcinogenic	Sept	29	18	Tex. plant	Sept	29	25
—Correction	Dec	21	39	EPA study seeks link between drinking	Dec	1		nates precious metal catalysts N	Nov	24	76
New ethylene units will co-produce more	July	21	20	water and colon cancer N FDA expected to propose ban on	Dec	,	39	Synchrotron radiation: Tool for studying		7	44
butadiene, but won't swamp markets	Sept	8	70	several chemicals for food, cosmetic	Cont	8	18	catalysts, semiconductors, enzymes . 'Three-way' catalytic converters to cut	July	/	44
(tables)	Sept		19	use N GAO charges EPA with failure to protect		0	10	car pollutants: Prospects of tighter			
Butane •				its own employees N Italy's Maltoni says "we have been un-	Oct	6	36	auto emissions standards spur re- search	Sept	8	74
Benzene or butane feedstock for maleic				able to detect a safe dose of vinyl							
anhydride? The verdict is not in yet Lead phase-down in gasoline poses		13	79	chloride"	Sept	15	47	Caustic Soda Alkali battle: Soda ash capacity climbs			
threat to key petrochemical feedstocks	3			gated for carcinogenic activity N	Sept	29	33	as "natural" expansions top			
(charts)	Sept	15	11	Mobil Oil reports that seven cases of				"synthetic" shutdowns (chart) Chlorine and caustic prices rose in '74	Nov	3	14
ing material for butanediol, says Chem	1			cancer (including two deaths) have been discovered among 129 em-				and '75 despite demand drop, U.S.			
Systems	Nov	24	75 39	ployees at Paulsboro, N.J., refinery who had been exposed to PCBs		1	13	Dow's Brazilian plant will be in the Aratu	Sept	1	14
—Correction	Oct	27	Pt2	NIOSH, OSHA studies see Labor	обрі		13	Industrial Center	July	14	43
				Pesticides: Ciba-Geigy and Nor-Am Ag- ricultural Products recall chlordime-				Japanese plant at Omi, Honshu Island completed	July	14	21
C				forms	Sept	29	18	Tokuyama Soda tries new ion-exchange	3		
				Red Dye No. 2 see Dyes & Dyeing SOCMA wants EPA's guidelines on				membrane for chlorine and caustic soda production	Nov	10	61
Cadmium Sulfide-"Thin-film" solar cells	S			suspected carcinogens changed N		4	40	Celestite-Kaiser will shut down celestite	3	10	0.
developed at University of Delaware Calcium Carbonate—Cuts cost of PVC	V Oct	20	39	Toxics Substances Control Act see Law UC finds pyrolysis fuel oil causes cancer				mining and strontium operations in Nova	Sept	1	9
resins for plastic pipe	V July	14	29	in mice N	Aug	25	44	Scotia	Ocpi		3
Provide				Vitamin C is of definite value in treating patients who have advanced cancer				Newark, Del. and in Ireland N Cellulose Acetate Butyrate—Contact lens	Sept	29	11
Canada Alberta approves additions for Medicine	9			says Pauling	Dec	15	17	producers eye new materials	July	28	44
Hat methanol	l Aug	11.	9	Who will protect us from EPA?— Viewpoint	Sept	8	5	Cement—Pilkington Bros. offers Japanese asbestos sheet in Western Europe N	Oct	13	71
Alcan's Quebec strikers at three smelters reach accord	Nov	24	25	Cancer see also Labor; Safety		0	3	Centrifuges-Bird Machine's big cen-		10	
Alcan's Shawinigan smelting and fabri-	. Mari	17	20	Canning: Home canning comeback spurs specialties sales	Aug	25	47	trifugals double solid-separation ca- pacity		15	47
cating facilities on strike	1	17	20	Cans see Containers				passy	oopi		
plant at Medicine Hat, Alta., fertilize	r R Oct	13	26	CAPS (Chemical availability and price service)—July 28-25, Aug 4-36, Aug 11-				Ceramics			
complex	Dec	22	35	38, Aug 18-32, Aug 25-43, Sept 1-35, Sept 8-50, Sept 15-48, Sept 22-31, Sept	-			Ceramics will prove a variable substitute	1		
Canadian Fertilizers' ammonia-urea complex near Medicine Hat, Alta.				Sept 8-50, Sept 15-48, Sept 22-31, Sept 29-37, Oct 6-27, Oct 13-72, Oct 20-33				for scarce materials in many applica- tions, says H. Parker at AIChE meeting	Sept	8	53
gets financing	Aug	18	18	29-37, Oct 6-27, Oct 13-72, Oct 20-33, Oct 27-38, Nov 3-36, Nov 10-65, Nov				Jeanette Corp. revises 1976 forecast up- ward	0		
DDT and heptachlor uses banned F Dow Canada warns of shutdowns i	July	21	18	17-32, Nov 24-66, Dec 1-28, Dec 8-58, Dec 15-22	Dec	22	22	Chemical and Specialties Management		15	15
government controls are not lifted N	Aug	18	26					Council—Management council group: a			
European consortium buys stake in	1	13	17	Carbon, Activated Activated-carbon waste treatment plant				place where small company chiefs dis- cuss problems	Oct	27	35
Canadian coal	:	13	**	at Rocky River, O. passes test but has						-	
President Stock at N.Y. security	/	14	21	problems	Dec	8	48	Chemical Industry Institute of Toxi-			
analysts meeting Hercules polypropylene plant delayed	1			treatment system is activated-carbon	1			Moving ahead on tests of commodity			
by electricians strike	Sept	15	21	proving ground	Sept	29	31	chemicals, planning \$10-million re-		47	200
mining and strontium operations in	1			carbon to meet EPA's new PCB stan-				search center	Nov	17	36 21
Nova Scotia	Sept	1	9	dards	Aug	4	34	Chemical Marketing Research Assn.— Meeting in Cleveland discusses rubber			
ownership of energy industries N	Oct	20	31	sorption for VC emission control; one				and plastic additives	Nov	24	84

Chemical Specialties Manufacturers Assn.				Fluidized-bed combustion: Australia to test the burning of wastes from coal				manufacturing facilities
Annual meeting (63rd): By-law amend-				preparation plants N	Sept	29	34	Foreign share of U.S. m.
ments tabled; sessions on aerosols, detergents, pesticides	Dec	22	31	Fluidized-bed combustion: Can it improve power-cycle efficiency?	Dec	22	36	ing (tables)
"Captive insurance company" proposals				Fluidized-bed combustion: cheaper way				Cooperation (CIEC)—Ha nots: dialogue stalled
Short course on detergent fundamentals	Nov Aug	24	21	to burn coal efficiently, with less pollu- tion—report. Donald P. Burke				
"CHEMICAL WEEK"—New Chemical Week service—CAPS, Chemical				(flowsheet, table)	Sept	22	24	Construction Building-materials vent
Availability and Price Service-				contracts for uses N	Dec	8	47	begins U.S. licensing of
Publishers' Page	Aug	18	5	Gasification see Gasification Jordan, Robert K. says at AIChE, a big				ture of urethane panels lamination process;
CHEMICAL WEEK Reports				carbon-monoxide-based industry				Rohm GmbH to ma
Chemical Week 300. Homer G. Starr (tables)				could be built if steel-mill blast furnaces were operated with oxygen	Sept	8	53	market cast acrylic she Great Britain plant builde
Leading CPI companies' second-	A	25	22	Kellogg says jet fuel can be made from		20		cient
quarter gains bolster 1977 outlook . Top-flight CPI firms' lower gains give	Aug	25	33	coalN Liquefaction see Liquefaction	Sept	29	40	Housing: Sluggish house mand for methanol
rise to higher hopes for '77	Nov	24	35	Plant sites 1977-report. John M.				Housing upturn Mobil's Hackney says
FBC may be a better way to burn coal. Donald P. Burke (flowsheet, table)	Sept	22	24	Winton How industrial power costs, charges				casting limits ability
Plant sites 1977: it's north's move. John M. Winton (charts, tables, maps)	Nov	10	35	for coal, oil and gas and reserve compare (table)	Nov	10	48	projects
Chemiluminescence—American			-	Pressurized fluid-bed unit will be built to				permits for construction
Cyanamid's Cyalume chemical light- sticks illuminate the closing ceremony of				burn coal N Sasoi I gasoline and chemicals from coal	Aug	25	44	operation of nuclear po Russia plans to offer prod
the XXI Olympiad in Montreal	Aug	11	14	operation in South Africa: Cost picture	Leiler.	7	32	tion deal to Western co
China					July	,	32	Smoke alarms: State coo (map)
Japanese firms in new plant deals with	May	17	27	Coatings American Cyanamid doubling capacity				Sulfur: aggregate, coating
China	Nov		27	of methylated melamine coating resin				Consumer Markets
Hoechst	Dec	1	25	plant at Kalamazoo, Mich N Auto makers turn to anticorrosion coat-	Oct	6	13	Consumer Product Safe tional telephone survey
ment N	Aug	11	25	ings to help combat growing rust pro-				U.S. consumers over
'Rare-earth microfertilizer' N Trade: few changes ahead seen with	Sept	1	40	Condominium suit over asbestos found	Sept	22	21	tindings
Chairman Mao's successors	Sept	22	23	in dust names Kaiser ceiling texture	_			investigating possit
Chiorine				product, K-spray	Sept	29	21	CPSC profiles products
Allied's Baton Rouge, La., plant leak	Dee	22	20	chromates would be costly NP&CA	Araba.	14	10	Consumer Product Safet
spews chlorine gas	Dec	22	20	tells OSHA	July	14	18	Establishing new prioritie
and '75 despite demand drop, U.S. says	Sept	1	14	update of U.S. coatings industry Inmont: Refocusing on basic busi-	Nov	10	78	ing possibly hazardous Lead-in-paint: CPSC ma
Dow's plant will be in the Aratu Industrial				nesses-ink and coatings-paying				ble lead limits
Center, Brazil Operating rate dropped slightly in May N	July	14	43 27	off	July	21	16	National telephone su 1,800 U.S. consumers
Output up—Chlorine Institute report N	Aug	11	19	Japanese product called Enamite N	Aug	11	37	18 findings
Output holds within narrow range N Prices N	Oct	6 22	24	Sulfur coatings—new uses	Aug	11	20	Product profiles
Tokuyama Soda tries new ion-exchange				which is pulled off, leaving 'mortar'	holis	28	37	Contact Lens American Optical to
membrane for chlorine and caustic soda production N	Nov	10	61	line	July	20	31	contact lens at Fran
Chlorofluorocarbons see Fluorocarbons				Coke				Soft-lens producers eye
Chloromethanes				Allied denies Armco charges in coke	July	28	17	Soit-letis producers eye
Dow to double capacity of Freeport,	trate.	7	47	suit				Containers
Tex., plant	July	7	17	capacity of its Detroit foundry coke	July	21	18	'mini BULK', British-de
Kan N Chromates—Controlling worker exposure	July	7	17	plant R Chemical Week 300—report (tables)	Nov			PP container
to chromates would be costly NP&CA				Aug 25-36	Nov	24	40	 container market Paper-board box price
tells OSHA N Chromatography—Olympic athletes will	July	14	18	Republic Steel's coke battery in Cleve-	Oct	27	17	nally concluded
have to pass liquid chromatography test				land startup delayed by coke-oven				Controls
Chromophores—Dynapol's polymer-	July	21	36	emissions problems	Oct	20	18	Electronic controls
bound food colorants	Aug	4	21	tion approval sought R	Dec	8	43	process control phi plants
City College, The City University of New York—Flash hydrogenation work	Sept	1	33	U.S. Steel's Clairton Works coke cleanup costly	Oct	20	18	ISA meeting and show:
York—Flash hydrogenation work Clay—Chemical Week 300—report (tables) Aug 25-38	Nov	24	50	Colombia—Pesticides plants dispute N	Dec	22	33	manufacturing production Copolymers—Contact len
	IVOV	24	50	Colorants				new materials
Cleaners Chemical Week 300—report (tables)				Dynapol aims at \$25-million food-color-	Air		01	Copper
Aug 25-36	Nov	24	41	ing market with new inert polymers FDA's call for additional toxicity studies	Aug	4	21	Eisenhower Mining for
Radiator flushes: There may be prob- lems ahead as antifreeze life is				on food, drug and cosmetic colorants will cost industry an estimated \$10-12				Palo Verde copper de Indonesia: For Free
extended	Nov	10	77	million	Nov	3	17	developing mine me problems (map)
Coal				Food colors from natural sources: Mc- Clelland says four classes of natural				Outlook for metal maker
African Explosives' process to make ethylene from coal shows promise . N	Oct	13	71	substances are promising	Aug	4	22	Prices N July 21-20 Separation of copper
Battelle Memorial Institute-MAPCO	OCI	13	/ 1	Red Dye see Dyes & Dyeing Combustion, fluidized-bed see Coal				stream by active tra
process for removing sulfur from high- sulfur coal runs into snags for com-								synthetic membrane meeting
mercialization	Sept	15	44	Computers .				meeting
Celanese's Pampa, Tex., plant will switch to coal for firing boilers N		3	23	Bubble memory storage: Researchers labricate new synthetic crystals for				developed at University
Coal leasing bill: Ford veto overridden in				bubble memory data storage ISA meeting and show: ways to improve	Oct	6	41	Corn Syrup
Coal mine refuse mound in Illinois will be		18	10	manufacturing productivity Microprocessors: They make analytical	Oct	20	36	Amstar defers HFCS fac Staley, A.E. Manufactu
reclaimed N	Nov	17	43	Microprocessors: They make analytical instruments faster and more accurate	Aug	18	25	tose corn syrup will t
Coalcon: Celanese joins Coalcon con- sortium	Sept	1	18	New electronic controls are changing				Decatur, III. plant in I in Lafayette, Ind. exp
Coalcon project is being re-evaluated	Dec	22	40	process control philosophy in CP plants	Sept	29	29	pleted next summer Cornell University—Genet
Consortium will bring German coal min-				Superconducting devices called				on chemical process in
ing know-how to U.S N EPA to let some power plants switch to	Aug	18	23	Josephson circuits speed up com- puters	Dec	1	44	Corrosion—Auto makers to sion coatings to help
burning coal N	Dec	1	10	Toray Industries' computerized real-time				rust problems
ERDA wants new ideas for processing coal	Dec	15	39	simulator, called Traspo, to train operators at chemical plants N	Nov	10	61	Cosmetic, Toiletry, and Fr FDA's call for additional
coal								on food, drug and co
in Elk River coking properties in B.C., Canada N	Oct	13	17	Conference Board Capital appropriations surveys Sept 15-				will cost industry an e
Flash hydrogenation technology show- ing promise in chemicals-from-coal				16,	Doc	8	18	Cosmetics
processes	Sept	1	33	study	July	7	25	Chemical Week 300-
ACS meeting report	Sept	8	60	Foreign companies invested in 70 U.S.				Aug 25-36

Cosmetics ingredients to be reviewed by	Oct	27	18	Desulfurization				Boranes may find a role in drug syn-	D	45	00
FDA expected to propose ban on	OCI	21	10	Aqueous carbonate process: Sulfur- from-stack-gas system will get \$22-			00	Chemical Week 300-report (tables)	Dec	15	33
	Sept	8 15	18 15	Battelle Memorial Institute-MAPCO process for removing sulfur from high-	July	14	29	Aug 25-35	Nov	24	37
FDA's call for additional toxicity studies on food, drug and cosmetic colorants				sulfur coal runs into snags for com- mercialization	Sept	15	44	benefits for users	Dec	15	19
will cost industry an estimated \$10-12 million	Nov	3	17	Catalytic, Inc. to study residual fuel oil desulfurization	Aug	18	23	sought—Ford Foundation contracep- tive research report	Dec	22	19
face and body powder	Nov	17	46	Detergents				Drug abuse: Federal plan shaping up to combat drug abuse	Dec	15	10
Senate bill would require manufactueres to prove safety, efficacy of products N	Aug	11	10	Brazil passes a law prohibiting produc- tion of nonbiodegradable detergents				FDA: Congress will review alleged	Oct	20	10
Costs				CSMA meeting: Rohm & Haas'	July	7	42	FDA: Drugmakers see problems for in-	001		
FDA's call for additional toxicity studies on food, drug and cosmetic colorants				Schneider discusses surfactants	Dec	22	31	dustry if FDA is given additional powers	July	7	18
will cost industry an estimated \$10-12		•	47	CSMA's short course on detergent fun- damentals Chemical Week 300—report (tables)	Aug	11	21	FDA gearing up to apply good laboratory practice codes to drug industry N	Oct	13	18
million	Nov	3	17	Aug 25-36	Nov	24	41	FDA investigation of animal tests for drugs may lead to tighter regulations.	Nov	24	25
electric-rate restructuring upset CPI power costs? (table)	Aug	4	37	Detergent-disinfectant market: CSMA meeting	Dec	22	32	FDA will subject new versions of old drugs to proof of efficacy N	Dec	15	10
Illinois' regulation to require registration of toxic substances: Reporting costs				Zeolites may be newest substitute for				FDA's call for additional toxicity studies on food, drug and cosmetic colorants			
pegged	Aug	4	16	phosphate in detergents N Zeolite detergent formulations grow-	Dec	19	9	will cost industry an estimated \$10-12	Nov	3	17
'75 (table)	July	7	30		Dec	8	13	million . FDA's "good manufacturing practices"		14	18
nomical than coal	Dec	8	19	business for CPI	July	21	31	German drugmakers face problems that	July	14	10
Plant sites 1977—report. John M. Winton				Diamonds—Diamond nozzle may cut spin- neret wear N DibutyImagnesium—Lithium Corp. of	July	14	29	may curb their sales and profits (chart)	Dec	15	25
How industrial power costs, charges for coal, oil and gas and reserves				America's new high-efficiency catalyst				Heart drug, Ersldin: ICI pays claims for heart drug effects N	Aug	4	29
compare (table)	Nov	10	48		July	14	17	Kennedy to introduce legislation amend- ing Food, Drug and Cosmetic Act that			
compare (table)	Nov	10	50	making facilities at Midland, Mich R Difenacoum—Ratak, new rodenticide will	Sept	1	18	would require "detailmen" to attend certified training programs	Dec	22	20
Asarco's East Helena, Mont. plant:				be affective against rats that have a				Obesity drugs: Amphetamines called not	Dec	22	20
Lewis' and Clark county to issue bonds for pollution control facilities		47	00	resistance to warfarin and other antico- agulant compounds	July	28	37	effective and unsafe at Senate hear- ing	Nov	17	14
Chemical industry costs for marginal	Nov	17	22	Dihydrochalcones—Synthetic sweeteners derived from citrus peels look promising	Nov	24	68	Obesity drugs: Are their merits worth the risks?—Viewpoint	Dec	1	5
cleanup of U.S. waterways N Chemical industry is big spender: Bu-	Nov	24	75	Dimethyl Terephthalate				Obesity drugs: FDA threatens tighter controls or ban on amphetamines if			
reau of Census report N EPA limits on effluents from pesticide	Dec	8	47	Spanish plant near Algeciras R TPA routes: Two experimental syntheses	Oct	13	26	abuses continue	Dec	1	16
plants will be costly N	Nov	10	20	start with toluene instead of the more				troversial antiobesity drugs; Pennwalt			
Niagara, N.Y. bonds to fund air and water pollution control programs . R	Oct	20	20	expensive p-xylene now used in most industrial processes	Oct	13	67	tells its side of dispute over am- phetamine-type drugs	Nov	24	23
Oil industry cost will be \$10 billion a year by 1985 N	Dec	1	10	Disinfectants				Over-the-counter drugs: FDA actions could significantly expand market	Aug	11	13
Russia slates big antipollution outlays	Dec	1	25	Detergent-disinfectant market: CSMA meeting	Dec	22	32	FDA moves to allow over-the-counter sale of 10 cough and cold			
Standard Oil (Indiana) oil refinery pollution units to be financed with				lodine markets: will new PPG-Amoco project bring in more business or				medicines previously restricted to prescription sale	Sept	15	15
revenue bonds N Crockett, Jean A.—Pennwalt Board	Oct	20	9	create a glut?	Dec	1	23	FDA panel calls for limits on pain re-		27	18
member: She welcomes the chance to test business in practice		4	48	Disposables—UC drops plans to produce Drydees disposable diapers N	Nov	10	19	lievers	Nov	3	17
	Aug	-	40	Distribution				Parke-Davis' Benylin cough syrup: Recall suppressed	Dec	15	16
Crystals Bubble memory storage: Researchers				Chemical distributor sales will set new mark	Dec	15	29	Plant tissue culturing—Direct route to natural drugs	Aug	11	31
fabricate new synthetic crystals for bubble memory data storage	Oct	6	41	Distributor functional allowances (DFAs) are being jeopardized by a number of	000			Scientific panel will monitor adverse drug reactions	Dec	8	27
Liquid crystals take on a new glow Cucumin—Beet powders	Nov	24	81 22	questionable practices	Dec	22	24	Sleep-inducing agents: Researchers dream up safer sleep aids	Dec	22	46
Cyclamateg—Abbott requests cyclamate hearing from FDA	1	13	26	Distributors hear some tips on what to do before they retire	Dec	22	24	Spain will ofter drug manufacturing in- centives	Sept	22	23
_				Product-liability insurance: New wholesaler worry N	Dec	15	29	Stuart Pharmaceuticals plans \$25- million drug research expansion N		25	17
D				DNA (deoxyribonucleic acid)				Sweden will not take over drug com-		17	27
D'Alto, Cono, president of Novamont				Environmentalists urge tighter controls for DNA research N	Nov	17	14	Danies	Nov	17	21
Corp.: 'Hot line' helps him carve out growing share of U.S. markets	t	24	92	First synthesis of working gene report at		8	58	meeting finds most of the products in- troduced today appear to duplicate al-			
growing share or o.o. markets	1404	27	32	ACS meeting	Sept			ready available, well-established therapeutic agents	Nov	3	20
Canada bans uses of heptachlor and				may be applied to industry N NIH proposed strict guidelines for DNA	Aug	11	10	Vaccines: New rabies vaccine	Dec	22	21
DDT	July	21	18	research need clarification, says PMA Pharmaceutical makers will comply with		28	26	program Hitch in swine-flu plan	luly	28	21
Colorado counties, where rodent fleas	3	7	25	NIH rules for DNA research N Regulation is issue	Oct	20	10	Insurance for flu shots?	Aug	11	14
are carrying bubonic plague Great Britain: Farm workers seek more	3		25	Douglas, Paul Wolff—Freeport Minerals' president and chief executive officer:				Flu debate picks up		18	15
pesticides control N Dairy Products—Chemical Week 300—		13	49	Lure of far-off lands has always been a part of his thinking	1	1	43	Vaccine makers, claiming production is at full capacity, balk at call for		45	
report (tables) Aug 25-36	Nov	24	41		ОСРІ		40	More vaccine coming	Sept	15 22	15
ture PVC plant at Skelskoer N	Aug	18	26	Acetaminophen USP market: Monsanto				Flu case in Missouri confirmed	Oct	20	17 16
Dental Products				plans analgesic production at Luling, La N	Nov	3	13	Flu program halted	Dec	22	21
Plastic coating combats tooth decay. Japanese product called Enamite N	. Aug	11	37	Allergy drug, Pyribenzamine, recalled . Amphetamines: SmithKline turned down	Aug	25	24	specialties sales	Aug	25	47
Preformed high-impact acrylic protects and improves the appearance of teeth	5	17	46	in bid for hearing on efficacy of		1	10	Dyes & Dyeing			
Tooth decay: Xylitol and sorbitol will be	9	17	40	Dexamyl N Amphetamines see also obesity drugs Ampicillin trihydrate will be first drug	Оорг		10	Allied has agreed in principle to sell its Buffalo, N.Y., dyestuffs plant and re-			
tested by the NIDR in clinical trial with school children who will chew different	t			covered by maximum cost program N	Oct	13	18	lated assets to Buffalo Color Corp R Bayer to begin Brunsbuettel chemica	Nov	3	18
kinds of gum	Aug	18	31	Antibiotics see Antibiotics Arthritis: Syntex's naprosyn drug faces		-		complex dyestuffs second stage Food colors from natural sources; Mc-	Oct	27	41
Correction—letter	3			FDA recall order N Syntex requests FDA hearing R	Oct	18	10 26	Clelland says four classes of natura substances are promising	1	4	22
after surgery	Dec	15	42	Aspirin makers split over FDA plans to limit dosage)	1	10	GAF plans expansion and moderniza-	-	-	25
system based on thin-film technology	July	28	37	Aspirin substitutes and over-the-counter antihistamines: CPSC profiles	r			tion of Rennselaer, N.Y. disperse dyes	Dec	1	18
Deodorants, personal—Antiperspirants and deodorants: new packaging and in-	-		-	products	Oct	27	22	Polymer-bound food colorants: Dynapo aims at \$25-million food-coloring	3		
gredients compete for use Deoxyribonucleic Acid see DNA	Dec	8	29	Asthma: Fisons claims Syntex unit failed to fulfill antiasthma drug marketing	1		3	market with new inert polymers Price-fixing: Justice settles 2-year-old	1	4	21
Desalting see Water Treatment				pact		3	20	case against dye producers	Nov	24	20

Red Dye No. 2: FDA to review findings N Red No. 4 and channel black banned	Nov Sept	10 29	20 19	Texas A&M's energy and feedstocks symposium: Chase Manhattan's Winger discusses relationship				Standard Oil (Indiana) oil refinery pollution units to be financed with revenue bonds N	Oct	20	9
E				between gross national product and the use of energy	Sept	22	17	Senate plans revamped approach to energy and the environment N		24	20
				Those roosting energy chickens-	Dec	15	5	Toxicology testing: Industry shells out for			
Elastomers—Fluoroelastomers with better resistance to steam and hot water from				United Nations' study of energy use	Aug	11	36	Waterways: Environmentalists and	July	21	13
Du Pont	Oct	13	68	Energy Research & Development Administration				railroads team up to bar waterway projects	Dec	15	10
Electric Power Generation Argonne National Lab.'s conceptual				Enhanced oil recovery project: Cities			47	Waste Disposal; Waste Utilization; Water Pollution			
design for a reactor that could produce electricity by means of fu-				Service and ERDA share costs N Flash hydrogenation work	July Sept	14	17 33	Environmental Protection Agency			
sion	Dec	15	32	Englander				GAO charges EPA with failure to protect	0		00
electric-rate restructuring upset CPI				Engineering Cosorb technology marketed by Ten-				Johnson: Tapped to translate toxic	Oct	6	36
power costs? (table)	Aug	4	37	neco is ready for recovering ethylene following commercial success with				Regulations, standards, etc. see Air	Nov	17	19
Electrically charged spray nozzle could	Oct	6	36	carbon monoxide	Dec	15	31	Pollution; Environment; Waste Utilization; Water Pollution. Also see			
French pilot unit will test feasibility of us- ing solar energy to generate electricity				process control philosophy in CPI plants	Cont	29	29	specific product-Herbicides, Insec-			
for commercial use	Oct	6	35	Flash hydrogenation technology show-	Sept	29	29	ticides, etc. Who will protect us from EPA?—View-			
Gould, Inc.'s electric motors cut power costs	Aug	18	23	ing promise in chemicals-from-coal processes	Sept	1	33	point	Sept	8	5
Plant sites 1977—report. John M. Winton. Power demands and reserves				Floating plants: Designers believe barge-mounted plants are the wave of				British researchers report new way to			
(map & table) Power plant will demonstrate electricity	Nov	10	46	the future	Nov	24	70	optimize fertilizer use N	July	21	36
generation by fuel cells N	Aug	18	23	improve power-cycle efficiency?	Dec	22	36	ICI America will make enzymes for conversion of glucose into fructose . N	Nov	24	76
Electrochemistry—Diamond Shamrock purchases patents and facilities relating				A patent search for technology trends— U.S. Patent Office study (table)	July	28	30	ICI U.S. plans to complete glucose isomerase enzyme unit at Atlas Point,			
to electrochemistry from Electronor Corp	Sept	1	18	Pennwalt's Lucidol's new continuous process reduces hazards of making				Del	Nov	24	26
				percarbonate	Oct	27	42	catalysts, semiconductors, enzymes . Epichlorohydrin—NIOSH limit assailed	July Oct	7	44 25
Bubble memory storage: Researchers				savings cause makers to rethink		17	34	Epoxides-Viking Chemical's plant at			
fabricate new synthetic crystals for bubble memory data storage	Oct	6	41	process designs	Nov	17	34	Blooming Prairie, Minn	Aug	4	16
Computers see Computers	00.			Environment Alaskan pipeline see Piping				Equipment—Chemical process equipment orders spurt	Sept	8	17
Corning Glass files suit to restrain ITT from infringing on its patents on		0.1		Asbestos in dust sampled at Cliffside					July	7	17
optical wave guides R Liquid crystals take on a new glow	July Nov	21	18 81	Park, N.J. condominium found by N.J. and Federal environmental officials	Sept	29	21	Ethylenamines—UC's ethanolamines and ethylenamines expansions in TexasN		7	17
Microprocessors: They make analytical instruments faster and more accurate	Aug	18	25	Battelle Columbus Labs will study ex- posure to eight chemicals N	Sept	29	33		July	,	17
New electronic controls are changing process control philosophy in CPI				"Bottle bills": Colo., Me., Mass., Mich., voters will decide whether to set man-				Ethylene African Explosives' process to make			
plants	Sept	29	29	datory deposits on beverage containers; three of the measures also				ethylene from coal shows promise . N Chlorinated ethylenes are blamed for	Oct	13	71
Josephson circuits speed up com-	Dee	1	44	ban pull-tab cans	Oct	13	27	high phosgene levels in air N Conoco patents process for making	Dec	15	40
puters		,	44	would severely restrict the expansion				ethylene from hydrocarbons N	Dec	15	40
collector: New precipitator design will be tried in Japan	Aug	4	40	and new building of refineries and pe- trochemical facilities within five miles				Cosorb technology marketed by Ten- neco is ready for recovering ethylene			
				of the coast		1	16	following commercial success with carbon monoxide	Dec	15	31
Employment Layoffs: Du Pont slates job cuts in its				CIIT is moving ahead on tests of com- modity chemicals, planning \$10-				Feedstocks see Petrochemicals French joint venture is sidelined N	Nov	10	57
textile fibers operations	Sept	8	23	million research center DNA: Environmentalists urge tighter	Nov	17	36	Gazocean expert foresees ethylene plants as sources of crude with			
CPI job tallies down	July	14	23 15	controls for DNA research N EPA publishes list of major rules under	Nov	17	14	downstream customers fed by olefins brought in by ship (tables)	Dec	8	44
More chemical jobs	Sept	15	16 19	development	Dec	15	39	Great Britain: Dow studies feasibility of			
Slight drop in jobs	Nov	17	21	EEC environment meeting: European producers take sides in battle over tita-				U.K. ethylene unit N Great Britain: scramble on for ethylene		11	19
Employment up (tables)	Sept	15	16 55	nium dioxide disposal methods (ta- ble)	Dec	8	65	plants	Dec	1	25
				Fluidized-bed combustion: cheaper way to burn coal efficiently, with less pollu-				cutback	NOV	3	27
Energy Crisis Allied Chemical to enlist aid of em-				tion-report. Donald P. Burke (flowsheet, table)	9	22	24	built in Corpus Christi, Tex N Markets: expansions will provide enough	Dec	8	13
ployees in new energy conservation program, PULSE	Sept	29	19	France considers new environment law		17		ethylene for anticipated growth through 1980s (table)	Sept	29	41
Canada: legislation to strengthen domestic ownership of energy indus-	1			Illinois' regulation to require registration	7	17	27	Montedison and Anic propose joint-ven-	Sept	25	
tries	Oct	20	31	of toxic substances: Reporting cost pegged		4	16	ture plant at Montedison's Priolo, Si- cily, complex	Oct	6	31
energy conservation N	July	14	18	Senate pollution subcommittee N	Sept	1	10	New ethylene units will co-produce more butadiene, but won't swamp markets			
Electric power shortages see Electric Power Generation				New England offshore oil drilling project will not be particularly hazardous to	t			(tables)	Sept	8	70
Energy outlook bleak, Royal Dutch Pe- troleum's Wagner tells EEC meeting .	Oct	27	20	the environment and should proceed—Interior Dept. hearing		15	17	Philippine complex seeks foreign investors		29	25
Franco-American Congress: How to skin a cat—Viewpoint	Nov	3	5	NRC imposes a moratorium on issuing permits for construction of full-powe		.0	.,	Saudi-Japanese petrochemical complex may not be built		15	21
Fuel shortages see also Fuel; specific fuel, Coal, etc.	:	0	3	operation of nuclear power plants	Aug	25	25	Singapore: Royal Dutch/Shell's naphtha		13	21
Great Britain's chemical industry cut	0	00		Oregon firm, Bohemia Inc.'s process for bark chemicals has won a prize				for Singapore plant in return for ethylene	Sept	8	49
energy consumption in 1975 N Industrial nations saved energy in 1975	Sept	29	33	Plant sites 1977—report. John M	Dec	22	39	ragona	Nov	24	62
It takes two-or more-to tango-	Sept	29	33	Winton Hazardous waste treatment facilities	S			Ethylene Glycol			
Viewpoint	Dec	22	5	and ozone oxidant patterns (map) . Pollution control costs		10	44	Dow's Plaguemine, La., unit to resume	C	0	nìn
Plant sites 1977—report. John M. Winton				Asarco's East Helena, Mont. plant Lewis and Clark county to issue	t:			partial production	Oct	13	28 38
Power demands and reserves (map &	Man	10	40	bonds for pollution control facilities			00	Ethylene Oxide			
table) How industrial power costs, charges	3	10	46	Chemical industry costs for marginal	3	17	22	Dow's Plaguemine, La., unit to resume	Cont	8	28
for coal oil and gas and reserves compare (table)	Nov	10	48	cleanup of U.S. waterways ! Chemical industry is big spender: Bu	-	24	75	partial production	Dec	8	28
Senate plans revamped approach to energy and the environment N	Nov	24	20	reau of Census report	N Dec	8	47	Producers count on fall upturn N	Sept	1	22
Spain puts surcharge on energy consumption	1	27	27	plants will be costly	Nov N	10	20	Europe Antipollution legislation hits snag N	Auc	11	37
Styrene plants cut energy costs: Steam savings cause makers to rethink	1	2.		water pollution control programs	R Oct	20	20	CEFIC annual report	Nov	3	32
process designs	Nov	17	34	Oil industry cost will be \$10 billion year by 1985	N Dec	1	10	Coatings industry survey and update of U.S. coatings industry	Nov	10	78
government's policy on energy tax	Oct	6	30	Russia slates big antipollution outlays	N Dec	1	25	Common Market antitrusters look at terti- lizer markets	July	21	29

Common Market wants manufacturers held liable for product defects N	Sept	22	32	Japan's technology sales at strong pace	Sept	29	25	European fiber makers raise some prices N	Nov	10	57
Drought: worst drought in generations				Nuclear equipment: Ford ponders treaty	Sehr	23	20	European, Japanese fiber makers fight			
Chemical companies in Wales striving	July	14	22	to boost sales overseas but provide tougher safeguards N	Sept	29	12	sagging demand, low prices (chart) .	Nov	17	30 25
to effect a 30% saving in water	Aug	18	28	Phosphate: U.S. producers tearning up	oopt			Fiber makers bank on upturn in 1977;	outy		
Consumption by Sept	Aug	1	14	with European fertilizer makers in a bid for new outlets N	Aug	4	29	who makes what and how much (chart & table)	Nov	3	34
Wales water woes ease	Sept	22	16	EEC seeks trade practices data of U.S.		11	25	Japanese synthetic fiber makers reduce		10	27
marketsN	July	7	17	Soviet-Hungarian chemical trade grow-	Aug			Liquid crystal mixes as the melt material	Aug	18	27
EEC environment meeting: producers take sides in battle over titanium				ingN	Dec	15	21	for spinning fibers	Nov	24	81
dioxide waste disposal methods (ta-			0.5	Spain faces long haul to chemical trade balance	Dec	8	42	Man-made mineral fibers are investi- gated for carcinogenic activity N	Sept	29	33
Common Market fails to agree on TiO ₂	Dec	8	65	Trade bill see Tariffs U.S. International Trade Comm. and the				Polyesters see Polyester Polypropylene see Polypropylene			
discharge controls N	Dec	22	40	Commerce Dept. plan to establish				Producers are cutting inventories N	July	14	32
Fertilizer markets up in U.S., down abroad	July	21	25	comparable figures for exports, imports, domestic production	Sept	1	11	Rohm & Haas' fibers disposition proposed	Nov	17	19
abroad	July	14	25	U.S. pollution control equipment: Big				Shipments, imports—Textile Economics			
Fiber makers raise some prices N Fibers: European, Japanese fiber	Nov	10	57	overseas market ahead N World trade touted as cure-all: NFTC	July	14	18	Bureau report N	Aug	11	19
makers fight sagging demand, low prices (chart)	Nov	17	30	convention told free flow of goods pro-	Mari	24	60	Film, Photographic			
Markets for chemical specialties for pulp	1404	11	30	motes economic order N	NOV	24	63	Polaroid charges Eastman Kodak with			
and paper, metalworking and textile industries up	Sept	15	40	ACHEMA '76 shifts toward new cus-				infringement of 10 Tanadium photo patents	Oct	6	20
Melamine makers face short-term glut as	oopt	15	40	tomer. Patrick P. McCurdy & Silke				Polaroid wins temporary injunction in a	001		
demand lags, technology improves	Nov	10	58	tomer. Patrick P. McCurdy & Silke McQueen Moscow chemical trade show to be held	July	7	37	British high court restraining Kodak Ltd. from manufacturing and selling its			
yields				in Sept. '77	July	14	25	range of instant-picture cameras and			
threat to European producers N Monsanto boosts plant investments in	Nov	3	27	_				film in the U.K.	Aug	18	13
Europe N	Sept	29	11	F				Financial			
Petrochemical output: Royal Dutch/ Shell forecast	Dec	8	42					Abbott's Ledder before security analysts			
Phosphate: U.S. producers teaming up	500	0	76	Farm Market see Fertilizers Farming—Muskegon, Mich. waste-treat-				in Chicago explains growth in sales	Oct	20	20
with European fertilizer makers in a bid for new outlets N	Aug	4	29	ment 'farm' irrigates and fertilizes land.				and earnings Abbott's stock offering R Airco's dividend raised R	Aug	11	16
EEC seeks trade practices data of U.S.				attracts industry	Sept	15	51	Airco's dividend raised	Aug	18	15 25
phosphate fertilizer producers N Union Carbide still likes Europe	Aug	11	25 26	attracts industry Fatty Acids—Emery broadens fatty acids interests in Mexico	Aug	4	9	Allied's '76 forecast from Connor to N.Y.			
U.S. controls on crude oil and feedstock				Fermentation—ICI protein process mixes methanol and microbes	Nov	10	63	Soc. of Security Analysts	July	28	26
prices are affecting U.S. chemical operations in Europe	July	14	25			-	-	of fraud during merger negotiations six	0	00	
Western technology spawning competi-				Fertilizer Institute 6th annual trade fair	Aug	4	27	years ago	Sept	1 22	14
tion from East-bloc chemical makers . European Council of Chemical Manufac-	July	28	39	6th annual trade fair				Soc. of Security Analysts: High hopes	Dec	16	10
turers (CEFIC)-Europeans ask easing	Man	3	20	Premier Blakeney assures fertilizer users that Saskatchewan potash will				for '77	Dec Aug	15	19 16
of export competition N Evaporators—Caustic evaporator system			32	remain competitive	Sept	29	26	Asarco's East Helena, Mont. plant: Lewis and Clark county to issue bonds for			
for Poland's Polimex-Cekop R	July	7	24	Fertilizers				pollution control facilities R	Nov.	17	22
Explosions				Brazilian complexes contracts to				Atlantic Richfield goes to the money market	Sept	22	9
Cosden Oil's Big Spring, Tex., plant		00	07	Pullman Kellogg N Brazil's fertilizer use on rise N	Dec	8	14	Atlantic Richfield raises its quarterly di-			
damaged by explosions and fire R Hanford's Richland, Wash, blast hits 10	July	28	27	British researchers report new way to				vidend	July Dec	7 15	24
Hanford blast becomes campaign		15	9	optimize fertilizer use N Chinese tout 'rare-earth microfertilizer' N	July Sept	21	36 40	Ball Corp.'s Fisher before Atlanta se-			
issue	Sept			Common Market antitrusters look at ferti-			20	curity analysts	Nov	24	24
probable cause of nuclear accident Water leak at reactor	Nov	3	17	lizer markets N FI meeting in Cincinnati: Producers are	July	21	29	security analysts	Oct	6	16
International Flavors' aroma chemicals				bullish	Aug	29	27 26	Blumenthal, W. Michael named to be the Carter Administration's Secretary of			
plant in Union Beach, N.J., explosion and fire	July	21	17	Fertilizer surpluses likely by 1980-				the Treasury	Dec	22	20
Italy: ANIC plant explosion; arsenic				British economist's forecast N Indonesia aims at fertilizer inde-	Sept	8	17	market gets boost	Oct	20	20
cleanupon	Oct	13	24	pendence with big urea, ammonia				Brockway Glass will redeem stock R Cabot Corp. declares dividend R	Aug Dec	8	16 25
chlorophenol plant causes evacua-			13	plants Kugler Oil building liquid fertilizers plant	Sept	8	51	California drought: Companies are			
tion of nearby residents	Aug	4,		in Ulysses, Kan	Aug	25	25	concerned about the effects of threatening water shortages	July	14	22
health effects of Italian CPI accident Seveso may be razed as result of toxic	Aug	11	13	Conference: Prices, production prob-				Capital appropriations increased-	Dec	8	18
chemical contamination	Aug	18	14	lems get prime time at fertilizer parley Markets up in U.S., down abroad	Oct	20	26 25	Conference Board reports Sept 15-16 Capital spending 1976—Commerce			
Sodium azide poses threat of explosion in hospital plumbing systems N		1	10	Oxy signs fertilizer agreement with Soviet				Dept. report	Sept	15	16
Tenneco's Chalmette, La., refinery ex-				Union	Dec	1	15	spending outlook; growth will be			
plosion at ethyl benzene fractionating tower	Aug	18	15	rates in first half '76-FI survey N	Sept	29	40	steady—not explosive (chart & table) Capital spending: McGraw-Hill Eco-	Oct	13	21
tower	Aug	25	23	Russia: Brezhnev attacks chemical in- dustry for fertilizer output lag N		3	27	nomics Dept. survey of U.S. business		05	00
Warner-Lambert's American Chicle Div		20	20	Russia: U.S.S.R. in \$1.2-billion deal with		4	25	spending plans abroad (tables) Capital spending: U.S. business must	Aug	25	28
gum plant in Long Island City, N.Y. ex-	Dec	1	18	Rhone-Poulenc N Russians blame fertilizer shortfall on gas		,	20	spend billions for new plant and			0
plosion	5			supply, construction, weather prob-	July	21	16	equipment		. '	9
plant reactor explodes F	Sep	15	16	Seasonal downturn socks fertilizer sales,		21		& table) Capital spending is up, focus is sharper	Nov	10 27	24
				prices N Shipments—FI reports N July 14-32, N	Dec	1	21	Chemed's dividend raised	Aug	18	15
Exports Arab boycott of Israel compliance will be	,			Aug 11-19, N Sept 15-33 N	Oct	13	37	Chemical pricing worries Wall Street	Aug	4	11
made public	Oct	20	19	Southeast Asian projects to get IMC technology	Nov	24	76	(charts)	rug		
Balance-of-trade Chemical exports up	Nov	10	31	technology	Nov	3	32	still have more cash flow for expansion (chart & table)	Dec	15	13
Chemical surplus slips	Dec	8	20	Tunisia's complex at Gabes planned . Find Turkish fertilizers complex contract goes	3	7	42	Ciprox's market plans: Sheffeny at N.Y.			
Trade balance up	July	7	21	to F. Uhde	I Oct	29	31	security analysts	Nov	17	20
likely to exceed the projected average	Sep	t 8	28	Ammonia; Nitrogen; Phosphate etc.				startup of technology-based firms . N	Sept	8	18
East-West trade Russia plans to offer product com								Corporate philanthropy contributions study	July	7	25
pensation deal to Western com		1	27	Fibers Acrylic fiber, water-absorbent, de-				study Du Pont's earnings are up despite loss on fibers	Ont	6	
Panies	Dec	8		veloped by Bayer N	l Dec	8	47	Du Pont's Shapiro at security analysi	(6	13
U.K. prospects buoyed by revision of price controls	ri e	7	31	Avicon Inc. introduces Avitene, fibrous collagen product used to halt bleed	3			meeting European business level drops: Wors	Nov	24	24
Western technology spawning com	-	,	31	ing	Sept	22	32	drought in generations begins to affect	1		
petition from East-bloc chemica	July	29	39	British and Italian companies rocked by problems	Nov	3	27	chemical process companies' opera-		14	22
Europeans ask easing of export competition	-			Demand to rise in fourth quarter N	Aug	18	18	tions Exxon to spend \$2 billion on chemica expansions	July		
Fertilizer export trends: Phosphate up	NOV	3	32	Divergent fiber trends continued in August	Oct	6	24	expansions	Dec	22	13
nitrogen down	V July	7	18	Ethylene oxide and glycol producers	3		22	nonautomotive areas: Riley at St			
GATT see Tariffs				count on fall upturn	зері		22	Louis Society of Financial Analysts	Sept	29	20

Foreign: CW's second annual financial survey of the 100 largest CPI com-				R.J. Reynolds Industries discloses questionable foreign payments and				Fire Extinguishers—Smoke detectors and fire extinguishers: Specialties play cru-			
panies whose home offices are in non- Communist nations other than the U.S.				domestic political contributions S Scott Paper's affiliates paid out illegal	Sept	22	16	cial roles (map) Fire Retardants see Flame Retardants	Dec	22	30
	Aug	4	30		luly	21	17	Fires			
manufacturing facilities in 2nd-quarter '76—Conference Board survey	July	28	23	questionable sums abroad , A Texasgulf reveals questionable pay-	Aug	11	14	Cosden Oil's Big Spring, Tex., plant damaged by explosions and fire R ERDA's nuclear weapons components	July	28	27
Foreign share of U.S. market still grow- ing—Conference Board report (ta-					Dec	1	18	operations at Oak Ridge, Tenn., fire	A4	0	.~
France's new five-year plan: Chemical	Dec	22	34	Upjohn admits an additional \$1.4 million in overseas contributions	Aug	11	14	International Flavors' aroma chemicals	Nov	3	17
growth pace to slow	July Aug	7	40 16	Pennwalt's Drake reports to St. Louis fi-	Nov	24	24	plant in Union Beach, N.J., explosion and fire	July	21	17
Great Britain: Chemical investment pace	Oct	27	27	Plant sites 1977: it's north's move-		-		Lorenz Chemical's Council Bluffs, Ia. plant destroyed by fire	Dec	1	18
Great Britain: Pound devaluation spurs	OUI	21	21	report. John M. Winton (charts, tables, maps)	Nov	10	35	Fires see also Explosions Fish—Aquatic toxicology: an infant	000		10
call by U.S. firms in U.K. for okay to raise prices	Oct	20	16	Platinum may get futures contract listing in Chicago	Aug	4	9	science that will grow with Toxic			
Great Britain: U.K. ponders plans to beef up CPI	Aug	4	33	Precision Polymers files bankruptcy petition	Nov	3	18	Substances Act	Nov	3	25
Gulf Oil raises quarterly dividend R	Oct Aug	20	20 15	Private-replacement financing: in- surance cash seeking a home mi-				Flame Retardants			
Hercules' Brown at security analyst	Nov	24	24	grates to CPI (tables)	Dec	1	13	Contact adhesives: CPSC wants limits on flammability of contact adhesives			
Hoechst's sales and earnings: eight	1404	64	6.7	analysts	Nov	24	24	Fabric flammability standards will re-	Aug	11	10
	Oct	6	31	Productivity: Resurgence in productivity and operating rates will bolster CPI	_			quire more flameproofing chemicals .	Oct	20	35 28
Inmont: Refocusing on basic busi- nesses—ink and coatings—paying				1976 earnings (charts)	Oct	6	15	Floors-WonderBrix is applied over tape matrix, which is pulled off, leaving			
off	July	21	16	stayed well ahead of price hikes—CW survey (table)	July	14	27	'mortar' line	July	28	37
ment financing that will not shift control	Dec	8	43	R&D spending plans: Battelle forecasts	Dec	15	39	Fluorocarbons			
Japan: Ruling party election setback				Resources shortages won't curb long-				ACS meeting reports	Sept	8	60
could stall Japan's recovery effort N Japan's chemical makers boost	Dec	15	21	Rhone-Poulenc's '76 report: Gandois to	Dec	1	10	Ozone debate goes on	July	7	22
	July	21	29	continue emphasis on firm's interna- tional business	Dec	15	26	Ozone question still up in air— Viewpoint	Sept	22	5
spending drops	Sept	8	49	Rohm & Haas' Gregory, Jr. at security	Nov	24	24	Fluorocarbon curbs on the way? NAS report	Sept	22	10
their stake in Asian joint venture	Aug	18	27	Royal Dutch/Shell's president Wagner	Oct	6	16	Aerosol makers look for substitutes Fluorocarbon action	Sept	29	17
Jeanette Corp. revised 1976 forecast up- ward: Stonehill at N.Y. security				SCM Corp.'s Glidden-Durkee Div. reor-				FDA wants to end nonessential chlorofluorocarbons in aerosols			
Koppers proposes two-for-one stock	Sept	15	15	Sales and earnings	Oct	6	17	under its control EPA plans to end nonessential uses of	Oct	27	22
split	Aug	4	16 16	Second-quarter sales and earnings	July	21	17	chlorofluorocarbons N	Nov	10	20
Merck & Co. dividend	Dec	13	25 49	top-flight year, but not a boom (ta- bles)	July	28	19	Fluorocarbon phase-out F-22: Three years' testing will be	Dec	1	15
Mexico's peso devaluation will reduce				Quarterly reports: Shaking off	Aug	4	15	needed before F-22 can be cleared Hydrocarbons ready	Dec Dec	15 15	15 15
earnings for many U.S. CPI firms Miles Labs.' debentures offered R	Sept Dec	29 22	18 21	Quarterly reports show signs of im-				Prices N Fluoropolymers—Contact lens producers	Nov	10	72
Mobil's Hackney says economic fore- casting limits ability to control big				Third-quarter: Earnings not up to ex-	Aug	11	15	eye new materials	July	28	44
projects	Oct	20	39		Oct	13	25 16	Foam			
rock and Texasgulf	Dec	15	15	Third-quarter: Robust again in a slack	Oct	27	19	Rubicon Chemicals' one-component urethane foam for filling and sealing			
Monsanto boosts plant investments in Europe N	Sept	29	11	Third-quarter sales and earnings still looking up (table)	Nov	3	16	gaps	Oct Aug	13	77 20
Monsanto's '76 forecast from Hanley and Kerley at N.Y. Soc. of Security				Correction	Nov	-17 10	21 26		Aug	11	20
NSF office aims to get small businesses	July	28	26	Strong gains continuing (table) Sales and earnings for individual com-	NOV	10	20	Baby formula: Abbott gets Soviet			
into government research N	Dec	15	10	panies see under company name in Company Index				contract for production of its Similac . Chemical Week 300—report (tables)	Dec	15	15
Newmont Mining's Walsh at Philadephia security analysts meeting	Nov	24	24	Scott Paper's stock offering R Sherwin-Williams' fiscal year to begin	Aug	11	16	Aug 25-36	Nov	24	41
1977 outlook: First Boston's "Chemical Commodities Indicator" N	Dec	8	13	Jan. 1 instead of Sept. 1 R Sherwin-Williams' Spencer tells N.Y.	Dec	22	21	several chemicals for food, cosmetic		8	18
'77 worldwide outlook: growth will hinge on new governments, exchange rates				analysts that the company is to spe- cialize	Nov	24	24	Correction	Sept	15	15
(charts & tables)	Dec	22	17	Spain to offer drug manufacturing incen-		22	23	specialties sales	Aug	25	47
Olinkraft's capital investment: Collet at N.Y. security analysts	Nov	17	20	Stauffer will increase third-quarter	Sept	28		Latin-American Food Production Conference: Prices, production prob-			
Owens-Illinois divestiture: offers to swap shares of Owens-Corning Fiberglas		-		Story Chemical seeks bankruptcy	July	20	27	lems get prime time at fertilizer parley	Oct	20	26
for shares of its common stock	Nov	17	19	reprieve: company trying to work out a management agreement with an				Food Additives			
Allied Chemical discloses question- able foreign "overbilling" transac-				unidentified firm that would enable Story to resume operations	Aug	11	14	Dynapol aims at \$25-million food-color- ing market with new inert polymers	Aug	4	21
tions	Dec	8	25	Tenneco's market plans: Scott at N.Y. security analysts	Nov	17	20	FDA's call for additional toxicity studies on food, drug and cosmetic colorants			
Alcoa made questionable foreign pay- ments amounting to almost				Texaco's world capital and exploration		04		will cost industry an estimated \$10-12	Nov	3	17
\$400,000	July	21	17	"Third World"—Haves and have nots:	Nov	24	19	Food colors from natural sources: Mc- Clelland says four classes of natural		0	",
company plant locations for domestic political contributions	Dec	1	18	dialogue stalled	Aug	25	21	substances are promising	Aug	4	22
Atlantic Richfield, Ansul and Dart In-				at San Francisco security analysts meeting	Nov	17	20	Red Dye No. 2: FDA to review findings N Red No. 4 and channel black dyes ban-		10	20
dustries disclose questionable pay- ments abroad	Aug	25	23	Union Carbide still likes Europe	Nov	3	26 18	ned	Sept	29	19
Companies that pay bribes overseas may lose tax benefits N	Aug	4	10	UC's debenture offer				Food & Drug Administration			
Diamond Shamrock discloses ques-	Nov	10	27	upped	Nov	24	28 26	Agency accused of being too easily in- fluenced by industry; GAO report	t		
tionable payments General Tire & Rubber to spin off RKO General to reduce television licens-			-	U.K. chemical association disputes government growth rate projections N U.S. Steel's Speer at N.Y. Soc. of Se-	Aug	25	18	charging FDA laxness on approval of use of new drugs; Schmidt will be	•		
ing challenges arising from foreign		20	21	curity Analysts: High hopes for '77	Dec	15	19	leaving FDA in Dec. to take University of Illinois post	July	28	23
bribe allegations R Goodrich reports additional ques-		29	21	UOP's third-quarter dividend R Upjohn raises dividend	July	28	27 20	Congress will review alleged pressure on FDA by drug firms	1		10
Goodyear files suit against SEC to		4	14	Upjohn's president Hubbard, Jr., reports				Drugmakers see problems for industry if	f	20	
prevent foreign disclosure of its overseas payments		4	14	to Boston security analysts	Oct	6	16	FDA is given additional powers N Legal fees: FDA may pay legal fees for	1	7	18
ICI reports payments	Sept	15	15	split		4	16	consumer groups opposing its ac- tions	Sept	1	10
Inmont reports it had made question- able foreign payments of \$7 million	Aug	11	14	convention told free flow of goods pro- motes economic order	Nov	24	63	from Searle on aspartame	Dec	1	17
Monsanto discloses questionable payment		10	27	Financial Executives Institute—Committee on taxation: Horne, Jr. on tax reform bill			15	FDA regulations, standards etc. see under specific products	-00	,	1.0
Phillips Petroleum indicted on charges stemming from secret slush fund . N		8	18	Finland—Sweetner, xylitol, has major plus: it reduces tooth decay		14	37	Ford Foundation—Contraceptive research		22	10
atenining north accret attain tolle. In	Jupi				July	1-4	3,		Dec	22	19

Fragrances Grayson Associates' fragrances work-				Generators—Ozone generation system will be tested under EPA grant N	Nov	24	75	Farm workers seek more pesticides control N	Oct	13	49
Jovan, Inc.: Musk oil was only the start	Dec	8	20	Genetic Engineering				Government's revision of price controls	Nov	3	27
for Jovan, now branching out into other lines	July	7	28	ACS meeting: First synthesis of working gene	Sept	8	58	ICI pays claims for heart drug effects . N	July	7	31 29
Replicas of famous perfume brands are creating new markets for fragrances .	Oct	20	29			3	23	ICI plans single-cell protein plant at the Billingham, Cleveland, complex N		6	31
France				Georgetown University—FBC test Georgia Tech's Engineering Experimental	Sept	22	26	ICI protein process mixes methanol and microbes	Nov	10	63
Alumina from r.onbauxite materials plant to start up	July	7	32	Station—Thermo-mechanical pulping gets boost for Southeast N Geothermal—Spanish will develop	Sept	1	40	Montedison beefs up operations in U.K.	Sept	8	49
generations begins to affect chemical process companies' operations	July	14	22	geothermal steam from source near Barcelona	Sept	29	34	Plant builders called inefficient N Polyamides Intermediates Ltd., joint ven-	Dec	22	33
Environment law considered N Ethylene joint venture is sidelined N	Nov	17	27 57	Germany	обрі	23	54	ture of Montefibre and Monsanto, adiponitrile and hexamethylene-	0		40
New five-year plan: Chemical growth		7	40	ACHEMA '76 shifts toward new cus- tomer. Patrick P. McCurdy & Silke				diamine plant at Teesside N Portuguese project's financing will be provided by a consortium of British	Sept	8	49
'77 worldwide outlook: growth will hinge on new governments, exchange rates	o u.y			McQueen	July	7	37	banks and will be used to buy equip- ment and services in the U.K N	Nov	24	62
(charts & tables)	Dec	22	17	ment system	Nov	10	67	Pound devaluation spurs call by U.S. firms in U.K. for okay to raise prices	Oct	20	16
Rhone-Poulenc's '76 report: Gandois to	July	7	31	Bayer to begin Brunsbuettel chemical	Aug	18	14	Safety: new rules for plant safety formu- lated		8	49
continue emphasis on firm's interna- tional business	Dec	15	26	complex dyestuffs second stage Beker's phosphate fertilizer plant at	Oct	27	41	Shell Chemicals (UK) Ltd. slates new projects and expansions	Sept	29	27
Solar power: Pilot unit will test feasibility of using solar energy to generate elec-				Brake	Aug	4	29	TDI exposure incidents investigated N	Sept	13 29	49 34
tricity for commercial use	Oct	17	35 13	curb their sales and profits (chart) East German chemical industry is about	Dec	15	25	 U.K. chemical association disputes government growth rate projections. N 	Aug	25	18
Fuel				10 years behind its West German counterpart in technology, study finds		20	20	U.K. ponders plans to beef up CPI Gregg, John N. of Avtex Fibers: He bought	Aug	4	33
Brazil considers fuel rationing N Celanese's Pampa, Tex., plant will	Oct	27	27	Guano-Werke plans plant to produce		22	33	out the business and made it into a win- ner	Dec	1	48
switch to coal for firing boilers N EPA to let some power plants switch to		3	23	salt of hydrofluorosilicic acid R '77 worldwide outlook: growth will hinge		14	21	Gum			
burning coal N Kellogg says jet fuel can be made from	Dec	1	10	on new governments, exchange rates (charts & tables)	Dec	22	17	General Mills pulls out of xanthan gum production, slates \$2-million write-off	Sept	22	17
Plant sites 1977—report. John M.	Sept	29	40	Leverkursen R Aug 11-16 N Veterinary agent, Droncit, knocks out	Aug	18	9	Merck's Kelco division fermentation facility in Okmulgee, Okla. for xanthan			
Winton How industrial power costs, charges				tapeworms in all stages of develop- ment		18	31	and other bio-gums now 75% com- pleted	Sept	22	17
for coal, oil and gas and reserves compare (table)	Nov	10	48	West German chemical sales rolling at a respectable clip	Nov	10	57	gum plant in Long Island City, N.Y. ex- plosion		1	18
Synthetic fuels program ERDA to guarantee loans for synfuel	Oct	12	10	West German coal liquefaction equip- ment and know-how may be traded				Gypsum—Celotex Building Materials' Edgewater, N.J., gypsum board plant			
development N Fuel see also specific fuel, Coal; Natural Gas; Petroleum etc.	Oct	13	18	for Australian coal, aluminum and iron ore	Aug	11	25	shut downN		6	20
					Aug	11	25	н			
Fuel Cells Power plant will demonstrate electricity	A	10	20	West Germany claims to have the cleanest air in Europe as a result of us-				Hardwicke, James E., JrPresident and			
generation by fuel cells N Second-generation feeds sought for		18	23	ing gasoline with a lead content of 0.15 gm/liter N West Germany, Norway studying joint	July	14	29	chief executive officer of Hardwicke Chemical Co.: Entrepreneur gets a kick	(
fuel-cell power plants N	1404	3	23	projects in oil and natural gas N Gerrity, Robert M., Ford Motor's chief plas-	Sept	1	25	out of developing new processes	Aug	25	60
G				tics engineer: He heads drive to trim weight of cars by using more plastics	1	29	38	Health Aerosol bans see Aerosols			
Gas Airco's Industrial Gases Div. plans re-				Glass				Africa: Outbreaks of mysterious dis- eases		20	18
search and specialty gases facility in Research Triangle Park, N.C R		24	26	Chemical Week 300—report (tables Aug 25-38) Nov	24	50	Cancer probes see Cancer; Labor— OSHA			
Argentina feedstock unit: bids sought . N Industrial gas output shows good gains	Sept	15	21	Glassmaking largest market for soda ash	a	3	14	Flu case in Missouri confirmed Flu vaccine see Drugs —"Swine flu"	Dec	1	16
Industrial gas prices N Nov 17-44 N	Oct	13	37 31	Jeanette Corp. revised 1976 forecast up ward	-	15	15	Job-safety legislation see Law MCA semiannual meeting in N.Y. high-			
Liquid Air will build fourth air-separation unit	Aug	11	9	N.J. glassmakers ask that the current 2 lbs/hour limit on particulate emissions	s			lights health Pennsylvania: Philadelphia disease	Dec	1	15
Syngas Co. plans synthetic gas, me- thanol, acetic acid complex in Deer		00		be raised to 13-14 lbs/hour Owens-Illinois and Kerr Glass charged	d	6	17	causes renewed fear of swine flu's potential threat	Aug	11	13
Park, Tex	Sept Sept	29	11	with job discrimination in dispute ove back pay for women; loss of federa	al	15	16	with perplexing illnesses	Oct	20	18
Gas see also Natural Gas and specific gas	Зерг	25	21	contracts threatened	3	15	16	health authorities; another plant has been added	Oct	27	23
Gasification Allis Chalmers, electric utilities wil				manufacturing plant will permanentl shut down	R Oct	27	25	Philadelphia's Legionnaire's disease Nickel carbonyl suspect	: Sept	1	13
develop coal gasification process	3	15	47	Glass fibers				Philadelphia's Legionnaire's disease Was virus to blame?	: Nov	17	21
called "Kilngas"	Nov N	17	14	Boating market Owens-Corning Fiberglas reactivate	S	29	20	VD strain resistant to penicillin reported Health Research Group—Petitions OSHA	1	17	20
ERDA seeks design bids for two coal gasification demonstration plants	July	7	22	construction of plant in Amarillo, Tex- to make glass-fiber-reinforced ma	1-	22	17	to order CPI firms to identify the contents of all chemicals in workplaces	3	27	23
Rockwell wins ERDA contract fo molten-salt coal gasification	Aug	18	10	Pilkington Bros. offers Japanese as bestos sheet process in Wester	n Sepi	22	17	Hellum			
Gasoline				Europe	N Oct	13	71	Breach-of-contract suit: awards to Na- tional Helium Corp. and Cities Service			
African Explosives' process to make ethylene and gasoline from coa shows promise	ıl	13	71	contain LNG in ships	N Oct	13		Industrial gas prices	Nov Nov	24 17	25 44
Germany claims to have the cleanest ai in Europe as a result of using gasoline	r	15		Greases—FEA: lift oil controls	. July		22	Agri-Chemicals Div.: He plans to keep	0		
with a lead content of 0.15 gm/liter . N Lead-in-gas	V July	14	29	Great Britain Coalite and Chemical Products sus	8-			on pampering his customers	Dec	15	48
EPA's reduction in lead content of gasoline is back on schedule	of July	14	29	pends production of 2,4,5, trichlorophenol at its Bolsover plant.		18	14	Herbicides Agent Orange			
EPA to delay phase-out of lead in	n	1	10	Drought: Europe's worst drought in generations begins to affect CF	in Pl			Agent Chemical reconsidering plans to dispose of TCDD in California	s		
gasoline	s N Sept	22	19	operations	. July	14	22	landfill because of public con troversy	Sept	15	13
phase-down	N Sept	15	10	consumption by Sept	. Aug	18		Air Force ships nine cannisters to Johnson Island in the Pacific	Dec		17
Lead limits delayed	. Oct	6	19	Water cutbacks in Wales	. Sep	t 1	14	Agent Chemical still negotiating for disposal of Gulfport, Miss. stock	or i-		
threat to key petrochemical feed stocks (charts)	. Sept	15	11	Energy consumption cut by chemical in dustry in 1975	N Sep	t 29	33	BASF Wyandotte plans major herbicide	3,		17
operation in South Africa: Cost pictur	е	7	32	Ethylene: Dow studies feasibility of U.I ethylene unit	N Aug	11		Basagram, plant at Geismar, La		3	13
improves	July	,	32	Ethylene plant scramble on	14 Dec	1	25	Treflan trifluralin	. Sept	29	18

Hexachlorobutadiene (HCBD)—Dow tests show HCBD is carcinogenic, but there				India KenoGard signs R&D agreement with				Velsicol Chemical and Michigan			
may be threshold limits N	Sept	8	64	IDL AC	Sept	29	27	Chemical plan to merge; resulting company will be called Northwest			
Highways-Sulfur seeks new specialty	Aug	11	20	Nitric acid plant	Dec	8 27	43	Chemco	Nov	3	17
uses in highways Hoertz, Charles D. Jr., vice-president of	Aug	11	20	Phosphoric acid joint project with Nauru Urea: Stripping tower for Zuari plant will	Oct	21	41	Ventron management endorses Thiokol's \$44/share bid; Aquitaine			
Ashland Synthetic Fuels Inc.: He's get-				reduce urea, ammonia discharges				withdraws offer	Aug	18	14
ting a head start in the scramble for	Dec	8	72	below 20 ppm	Oct	6	33	Warner-Lambert acquiring Deseret Pharmaceutical Co	Dec	15	19
synthetic fuels	Dec	0	12	Indonesia				Williams Companies bids for metals	Dec	10	19
Chemical: His assignment-heat up				Aims at fertilizer independence with big				firm Williams & Co	Oct	6	20
sales of flame retardants	July	14	48	urea, ammonia plants	Sept	8	51	Owens-Illinois divestiture: offers to swap shares of Owens-Corning Fiberglas			
trade growing	Dec	15	21	Fertilizer project to get IMC technology N	Nov	24	76		Nov	17	19
Hydraulic FluidsUC finds nitrosamines				Freeport Minerals: developing mine in							
traces in Ucon fire-resistant fluid	Dec	15	16	Indonesia means many social prob- lems (map)	Sept	1	26	ink			
Hydrocarbons				Japanese synthetic fiber makers reduce	Зері		20	Chemical Week 300—report (tables)	61	04	64
Chlorinated compounds see Insec-				their stake in Asian joint ventures	Aug	18	27	Aug 25-39	Nov	24	51
ticides; Insecticides—Pesticides Chlorinated hydrocarbons released in				Kasim is rapidly moving country toward fertilizer self-sufficiency: FI's World				nesses-ink and coatings-paying			
the atmosphere detailed in study by	_			Conference	Sept	29	26	off	July	21	16
Conoco patents process for making	Sept	15	43								
	Dec	15	40	Industry Developments Acquisitions and mergers: for newsletter				Inland Waterways			
FDA expected to propose ban on				and roundup items see under indi-				Drought hurts barging in the Mississippi River System	Sept	8	24
several chemicals for food, cosmetic use	Sept	8	18	vidual company names in Company Index				Environmentalists and railroads team up	E. T.		
Indonesian hydrocarbons processing	ocpi	0	10	Africa: Southern African CPI investors					Dec	15	10
picture	Sept	8	51	are wary, but bullish about long-term				Pollution control costs: Chemical in- dustry costs for marginal cleanup of			
MCA backs hydrocarbon emission studies N	Oct	27	44	Europe sees no threat from Mideast	Oct	13	50	U.S. waterways N Inorganic Chemicals—Prices N	Nov	24	75
Propellants aerosol packages	Dec	15	15	output N	Nov	3	27	Inorganic Chemicals—Prices N	Dec	8	14
				European business level drops: Worst							
Hydrochloric Acid Canadian Industries Ltd. places acid				drought in generations begins to affect chemical process companies' opera-				Insecticides Chayron to market Orthono insecticide			
customers on allocation N	Oct	20	25	tions	July	14	22	Chevron to market Orthene insecticide with fewer environmental hazards N	Dec	8	48
PricesN	Oct	20	25	France's new five-year plan: Chemical		-	40	Chlorinated insecticides see			
Hydrofluorosilicic Acid — Guano-Werke plans plant to produce salt of HFSA R	July	14	21	growth pace to slow	July	7	40	Pesticides—lindane, endrin, etc.			
Hydrogels-Contact lens producers eye				Chemical mergers down	July	28	23	DDT see DDT Manta insect growth regulator as treat-			
new materials	July	28	44	CPI mergers increased	Oct	20	19	ment for silkworms to be marketed . R	Sept	29	21
Hydrogen				Mergers and acquisitions American Cyanamid accuses Ervin				Pesticides Black flies threaten Florida orange			
American Cyanamid's Cyalume chem-				Co. of fraud during merger negotia-				crop; USDA orders Orthene N	Nov	10	72
ical light-sticks illuminate the closing				tions six years ago	Sept	22	14	Bolivia and Colombia clash over			
ceremony of the XXI Olympiad	Aug	11	14	Anaconda merger with Atlantic Richfield near	July	14	20	pesticides N Canada bans use of heptachlor and	Dec	22	33
Anhydrous hydrogen chloride prices . N	Nov	17	44	Anaconda shareholders to vote or	1			DD1	July	21	18
Industrial gas output shows good gains N	Oct	13	37	plan to reorganize as wholly	1			Chlordimeforms: Ciba-Geigy and			
Industrial gas prices N		17	44	owned subsidiary of Atlantic	Sept	29	21	Nor-Am Agricultural Products recall their insecticides	Sept	29	18
Hydrogen Peroxide-Municipal and in-				Richfield	Oct	20	16	Commerce Dept., EPA seek new ways	COPI		
dustrial waste treatment: fast-growing hydrogen peroxide market (table)	Sept	1	23	Ansul's U.S. agricultural chemical div to be sold; European fire protection				to boost pesticides R&D N	Sept	15	10
Hydrogenation: Flash hydrogenation				business being reorganized		10	30	Congress gets power to review EPA regulations governing pesticides . N	Aug	18	10
technology showing promise in		1	33	Bayer's Rhinechem Corp. acquires	3			Electrically charged spray nozzle			
ACS meeting report	Sept	8	60	Allied's organic pigments opera tions at Haledon, N.J.; incorporated				could cut pesticide use N		6	36
_				as Harmon Colors Corp	Sept	29	21	EPA limits on effluents from pesticide plants will be costly N	Nov	10	20
				Corco and Tesoro Petroleum merge	r	0	40	EPA moves to ban chlorobenzilate,			
				talks shelved	Nov	3	18	octamethylphosphoramide, and	feeler	14	10
Iminodiacetic Acid-Grace completes				son wants majority control of Cer	-			strobane N Forecast: slower growth N	July	18	18 18
plant at Nashua, N.H R		14	21	tain-teed	Sept	1	14	Great Britain: Farm workers seek more			
Imports				as talks with Amoco Minerals fa	1			pesticides control	Oct	13	49
ASP see Tariffs				through	Oct	6	19	\$10,000 in fines levied agains	t		
Arab boycott of Israel compliance will be		20	10	Du Pont-Christiana merger: U.S Supreme Court to decide whether				Hopewell, Va., for its involvement in	1		
made public	Oct	20	19	the deal worked out for the merge				the pesticide incident will warn other cities to enforce discharge permits			
Chemical exports up	Nov	10	31	is fair to Du Pont stockholders	Oct	13	24	more stringently	July	7	21
Chemical surplus slips	Dec	8	20	Du Pont-Shenandoah merger pla collapses	July	21	15	more stringently Kepone plea bargain?	July	21	16
Trade balance up	July	,	41	FMC's Fiber Div. sold to Avtex Fibers	July	7	21	Virgil A. Hundtofte pleads guilty or Kepone	Aug	18	14
ing import curbs	Dec	1	27	GE merger acquisition of Uta				Affect pleads no contest	Aug	25	24
Dumping: Melamine Chemicals charges Japan's Nissan Chemical with dump-	5			International fails to get Justic		4	- 14	Kepone pesticide residues found in	1		
ing melamine in U.S. markets	Nov	24	26	Justice Dept. won't block merger .	Oct	13	26	finfish in Chesapeake Bay Allied's employees acquitted o	Sept	1	18
East-West trade				KemaNord acquires 90% of shares of	of	20	07	felony conspiracy charges relat-			
Russia plans to offer product com- pensation deal to Western com-				R&G Cuthbert Ltd	. Sept	29	27	ing to Kepone discharges	Sept	8	23
panies	Dec	1	27	Kennecott in contempt of court? .	Aug	11	14	Life Science's president Moore, Jr pleads no contest	Sept	22	14
Russian order backlogs shrink	Dec	8	19	Peabody decision	. Sept	1 29	17 23	154 charges dismissed agains	1		
U.K. prospects buoyed by revision o price controls		7	31	Texasgulf bows out	0	13	23	Allied	Oct	13	18
Western technology spawning com-				a consortium	R Oct	20	20	Kepone hazard in blues	Oct	20	20
petition from East-bloc chemica	ll today	28	39	Peabody terms told Lubrizol's agreement to acquir	. Dec	8	18	Removal of Kepone from James	S		
makers	July N Aug		19	Marine Colloids Aug 18-14		8	25	River may be possible N Paying for Kepone	Nov	10	20
France lifts restrictions on oil product im-				Molycorp tenders offer for Kaweci	Ki			Germany company seeks partne	1404	11	19
ports	4 July	7	31	Berylco Industries N Aug 4-9, Aug 11-16	N Aug	25	17	for Kenone A	J Mov	17	27
Japan's technology sales at strong pace				Moly acquires approximately 50°	%			—Correction. New Kepone suit	Nov	24	62 26
	V Sept	t 29	25	of Kawecki	. Sep	1 22	- 14	Allied seeks permit to bury Kepone	P	24	20
Oil: FEA proposal would remove the 63¢/bbl. import fee on finished petro	0			NL Industries to sell Dutch Boy Pain Div. to ELT, Inc.	. Dec	22	19	in abandoned missile silo in	1		00
leum products for 3 years	. July	28	22	Netherlands government buys 49%	of	22	10	Idaho		24	26
Soviet-Hungarian chemical trade grow	1-			Goodrich's International B.I				at CSMA meeting	Dec	22	32
Spain faces long haul to chemical trade	N Dec	15	21	Goodrich; additional 2% sold to Dutch foundation	a Oct	27	23	Leptophos: NIOSH seeks data or	1		
Spain faces long haul to chemical trade balance	N Dec	8	42	Sandoz to purchase shares	21			Velsicol's pesticide	Dec	8	25
Textile imports soar—U.S. Commerc	e			Northrup, King	. Sep	t 29	21	port, Tex	. Dec	15	18
Dept	. Aug	25	24	Schering AG acquires Nepe	ra	t 29	21	Maine plans to reduce spending to	F		
U.S. International Trade Comm. and th	e			Chemical	9-	. 23	61	pesticide spraying against eastern spruce budworm; "operational	al .		
Commerce Dept. plan to establis	h			sellschaft A.G. is interested in bu	V-		47	pesticides" under consideration	. Nov	3	18
comparable figures for exports, imports, domestic production	1-	it 1	11	ing all physical assets UC acquisition of Rorer-Amchem	. Dec	8	17	Malathion exposure standard planner	d		
World trade touted as cure-all: NFT	C	. '		Amchem Products subsidiary	in			by NIOSH	Nov	24	20
convention told free flow of goods pro)-	. 24	63	stock swap: tentative agreeme	nt	, 20	24	one-third of persons tested in the	e		
motes economic order	. Nov	24	63	reached	. July	/ 28	21	Southeast	. July	28	23

Miner discharged into Niggorg Diver											
Mirex discharged into Niagara River comes from Hooker, says EPA;				ANIC plant explosion; arsenic cleanup							
Hooker stopped making Mirex in '67	Sept	8	28	on	Oct Sept	13 29	24	Labeling			
Mississippi proposes phase-out of Mirex production and use by mid-	Sept	15	13	Explosion at Icmesa's trichlorophenol plant causes evacuation of nearby				Armak designs labels for hazardous chemicals	Aug	25	44
Mirex shortage virtually halts		29	17	residents	Aug	4	13	Shippers may have to identify "environ- mentally hazardous substances" N	Sept	15	10
Mirex production to be phased out	Sept Nov	3	18	health effects of Italian CPI ac- cident	Aug	11	13	Labeling, detergents see Detergents Labeling, drugs see Drugs			
NACA meeting: New pesticide rules draw industry fire	Oct	6	25	Seveso may be razed as result of toxic chemical contamination	Aug	18	24	Labeling, law see Law			
Pesticide immunity among an ence- phalitis-bearing strain of mos-				Fibers slump	Nov	3	27				
quitoes in Houston prompts change of materials and spraying schemes	Sept	8	27	to detect a safe dose of vinyl chloride"		45	47	Cancer studies			
Pesticides report—Correction	July Oct	7 27	21	Montedison and Anic propose joint-ven-	Sept	15	47	DiethanoInitrosamine: Warning on oils	Oct	20	20
UC's Institute, W. Va., complex will get	Out		40	ture ethylene plant at Montedison's Priolo, Siciliy, complex N	Oct	6	31	Du Pont's Carney's Point, N.J., nitro-	July	28	26
a hydrogen and carbon monoxide unit to supply, among other things,				Montedison faces possible state control	Aug	18	26	Du Pont's report amplified	Aug	4	14
its expanded Temik Aldicarb pesticide production N	Oct	13	17	Montedison is looking for government fi- nancing that will not shift control of				eight N.J. plants from '56 to '74 .		11	13
USDA to aid EPA in evaluation of pesticide risks	Nov	10	20	company to state	Dec	8	43	New cancer data reported	Sept	1	13
Virus pesticide developed to combat	Sept	22	32	gas price hike N	Oct	29	31	studied N Mobil Oil reports that seven cases of	Oct	20	10
UC's carbaryl insecticide, Sevin, patent								cancer (including two deaths) have been discovered among 129 em-			
dropped U.S.S.R. in \$1.2-billion deal with Rhone-	Oct	20	18	9				ployees at Paulsboro, N.J., refinery	0		40
Institute of Oncology and Tumor Center—	Dec	1	25	Jamaica Alcoa and Jamaica Bauxite to form min-				who had been exposed to PCBs Discrimination	Sept	1	13
Maltoni, C. says "we have been unable to detect a safe dose of vinyl chloride" N Instrument Society of America—Meeting	Sept	15	47	ing venture, JAMALCO N Oct 13-17 . Prime Minister Michael Manley re-	Dec	22	20	Block Drug age bias charged Owens-Illinois and Kerr Glass	July	7	24
and show: ways to improve manufactur- ing productivity	Oct	20	36	elected	Dec	22	20	charged with job discrimination in dispute over back pay for women; loss of federal contracts threatened	Sept	15	16
				Japan Ammonia-urea barge plants may go to				Sex discrimination practices: bias			
Diagnostic chemicals are becoming big				Mideast	Sept	22	9	probe widens	Dec	8	20
business for many CPI companies ISA show: everyone pushed for produc-	July	21	31	drops	Sept	8	49	Nov 17-19	Dec	8	20
tivity Microprocessors: They make analytical	Oct	20	36	spending	July	21	29	Dept. threatens to cancel Uniroyal government contracts and bar the			
instruments faster and more accurate	Aug	18	25	land, completedR	July	14	21	company from bidding on govern- ment work	Aug	18	13
Insulation				Employees bonuses to be paid again. R Environmental Agency data shows that	July	7	42	Dow's claims that it is unfair for strikers to picket retail outlets sent back to the			
Certain-teed agrees to shed Shelbyville, Ind. glass-fiber insulation plant it ac-				sea water near the country has been polluted with heavy metals and PCBs	Sept	15	44	NLRB for reconsideration by Supreme	0-1	40	0.4
quired from PPG in '73 R Sulfur foam—new uses	Sept	8	28 20	Experimental plant converts uranium te- trafluoi de into uranium hexafluoride				Court	Oct	13	24
Odital loani—new assa	Aug	* * *	20	Fast-breeder, gas-cooled nuclear reac-	Nov	24	75	ment could benefit Steelworkers General Tire's Ashtabula, O., plant gas	Nov	17	21
EEC wants manufacturers held liable for				tors get a boost N Fertilizer markets up in U.S., down	Aug	25	44	exposure litigation settled R Great Britain: Farm workers seek more	Nov	17	22
product defects N Flu shots insurance?	Sept	22	32 14	abroad	July	21	25	pesticides control N Great Britain investigates TDI exposure	Oct	13	49
Flu debate picks up	Aug	11	13 15	makers fight sagging demand, low				incidente	Sont	29	34
GE insurance program discriminates		18	15	prices (chart)	Nov	17	30	Japan employees bonuses to be paid again	July	7	42
against women by omitting pregnancy from coverage charged: Supreme				their stake in Asian joint ventures Mitsubishi seeks partners for tri-	Aug	18	27	Aug 18-14, Aug 25-24, Sept 1-18,			
Court to decide case	Dec	8	20	chloroethane plant N '77 worldwide outlook: growth will hinge	Sept	22	32	Sept 8-23, Sept 22-14, Oct 6-18, Oct 13-23, Oct 20-20, N Nov 10-20, Nov			
wholesaler worry N Product-liability insurance costs triple:	Dec	15	29	on new governments, exchange rates (charts & tables)		20	17	17-19, N Nov 17-27 (Correction N Nov 24-62)		24	26
SPI survey	Dec	8	18	Pac-Es dust collector: New precipitator		22	17	Layoffs see Employment NIOSH			
your business. Take adequate		24	21	design will be tried	Aug	4	40	Issues a criteria document for occupa-			
u.S. valve manufacturers concerned	1	24	21	substitutes for naphtha as feedstocks	Oct	13	49	tional exposure to monomeric acrylamide	Nov	10	61
about soaring costs for liability coverage	Sept	. 22.	32	Plastic coating combats tooth decay: product called Enamite N		11	37	Malathion exposure standard plan- ned	Nov	24	20
output up: first-half production	Sept	1	24	PP and LDPE price hikes put off as recovery lags N		18	26	NIOSH limit on epichlorihydrin assailed	Oct	13	25
International Agency for Research or Cancer—Man-made mineral fibers are	1			Recycling effort set	Dec	8	41	Seeks lead data from GM's Delco- Remy battery div		8	25
investigated for carcinogenic activity . N		29	33	Japan's recovery effort N	Dec	15	21	Seeks pesticide data from Velsico			
Inventories		1		Saudi-Japanese petrochemical complex may not be built	Sept	15	21	Chemical	Dec	8	25
Fiber producers are cutting inventories	July	14	32	in Japan	Oct	13	71	Toxic chemicals control in smelters	3	11	10
Inventories fall in line: NAPM annua business forecast	Dec	8	63	Synthetic rubber industry revival: surg- ing auto output is major factor	Aug	11	27	Study	Nov	10	61
Sulfur: Sluggish shipments lead to rising inventories	Oct	6	24	Technology sales at strong pace N Toluene may be the raw material for		29	25	Arsenic proposals: COWPS takes ex-	Sept	22	9
Indine—Markets: will new PPG-Amoco		·		polyester fibers	Aug	4	40	Bénzene labeled as carcinogen, will be subject to new limits	Sept	-1	10
a glut? Ion Exchange—Tokuyama Soda tries new	Dec	1	23	simulator, called Traspo, to train operators at chemical plants N)	10	61	OSHA	Oct	27	17
ion-exchange membrane for chloring and caustic soda production N	9	10	61	Jet Fuel—Kellogg says jet fuel can be made from coal N	9		40	Controlling worker exposure to chromates would be costly NP&CA	1		40
lean.				V				tells OSHA	3	14	18
Alumina plant to have Russian	1 000		44					OSHA to order CPI firms to identify the contents of all chemicals in	1		
technology and know-how	-	8	41	Ketones—OSHA proposed standards: cost impact debated by OSHA and				workplaces	-	27	23
Oxy-Iran deal called off	Sept	20 8	31 23	SOCMA	Sept	22	16	bated by OSHA and SOCMA Solvents: date for hearings on in	Sept	22	16
Phthalic anhydride unit at Banda	r Sept	15	21	Korea, South				dustrial solvents standards set N Voluntary guidelines for silica	July	28	28
Shapur onstream	Oct	20 29	31	Acrylonitrile plant at Ulsan planned Fi Japanese synthetic fiber makers reduce		14	21	mercury and lead	Aug	4	10
Iron-Venezuelan ore complex contract to	0	22	13	their stake in Asian Joint ventures	Aug	18	27	Winton			
FMC	B	22	13	Petrochemical project is moving ahead N Oct 27-27	Nov	24	26	How states compare on labor climate workforce characteristics, and life	9		
poses threat to key petrochemical feed stocks (charts) isopropanol—UC to boost capacity at its	Sept	15	11	Namdo	Nov	24	62	quality (table)	Nov	10	41
Texas City, Tex., complex	v Sept	1	9	kles international market with specialties	3			(table)	Nov	10	54
Israel—Photodegradable plastic N	Nov	17	27	for papermaking	Sept	15	39	1975 (table)	Nov	10	55

				,							13
Productivity: Resurgence in productivity				Owens-Illinois and Kerr Glass				Territorial allocations: Supreme Court			
and operating rates will bolster CPI 1976 earnings (charts)	Oct	6	15	Sex discrimination practices: bias	Sept	15	16	will rule next spring on just how much control a manufacturer can exercise			
Stevens Co. may be ordered to call off its long-standing battle to resist unioniza-				probe widens	Dec	8	20	over where its products are sold N	Oct	27	18
tion of its mills	July	14	23	Nov 17-19	Dec	8	20	Title 2 of the Federal Energy Administra- tion Reauthorization Act: Will			
Strikes American Enka's strike at Lowland,				Uniroyal charged with job bias; Labor Dept. threatens to cancel Uniroyal's				Congress' proposed electric-rate restructuring upset CPI power costs?			
Tenn. plant	Oct	27	25	government contracts and bar the company from bidding on govern-					Aug	4	37
matter of great concern to CPI at this	0	00		ment work	Aug	18	13	Toxic materials: more control than we			
time (table)	Sept	22	11	DISCs see Taxation Dow's claim that it is unfair for strikers to				Toxicology testing: industry shells out	July	21	5
Coast mills resume production R Canada: Alcan's Quebec strikers at	Aug	4	16	picket retail outlets sent back to the NLRB for reconsideration by Supreme				for self-surveillance		21	13
three smelters reach accord	Nov	24	25	Court	Oct	13	24	Bill expected to clear House easily . N	July Aug	28 18	10
Canada: Alcan's Shawinigan smelting and fabricating facilities on strike	Nov	17	20	Dyes: Justice settles 2-year-old price fix- ing case against dye producers N	Nov	24	20	House votes toxic bill; Dingell amend- ment would ban PCB production in			
Canada: Aluminum Co. of Canada's Arvida smelter resumes production				Eastman Kodak suing Southern Shortenings on patent infringement N	July	21	9	three years	Sept	-1	13
as strike ends	Dec	8	25	Energy see Energy Crisis	/			agreement on toxic substances bill			
plant delayed by electricians strike				EPA publishes list of major rules under development	Dec	15	39	Bill remains bogged down in	Sept	8	18
Canada: Uniroyal's Kitchener, Ont.,	Sept	15	21	European antipollution legislation hits snag	Aug	11	37	conference committee N	Sept Sept	15 22	10
agreement rejected	July	7	21	FEA extended through Dec. 31, 1977	Aug	18	13	Bill approved by Congress	Oct	6	16
Rico, strike tentatively settled	July	14	23	Federal Insecticide, Fungicide and Rodenticide Act has been extended				Toxic controls: Maybe we'll get lucky—Viewpoint	Oct	13	5
Dayco Corp.'s Springfield, Mo., plant workers strike	Oct	20	17	by Congress until Sept. 30, 1977 N Flu program see Drugs —Vaccines	Aug	18	10	Industry and EPA tool up to cope with the new Toxic Substances Control			
Engelhard's McIntyre, Ga. kaolin plant strike ends	Dec	8	25	FDA: Congress will review alleged				Act	Oct	20	43
strike ends	Luke		23	pressure on FDA by drug firms N FDA may pay legal fees for consumer	Oct	20	10	Aquatic toxicology: an infant science that will grow with Toxic Substances			
with the ICWU Mansfield Tire & Rubber's Ohio plant	July	14	23	groups opposing its actions N France considers new environment law	Sept	1	10	EPA's Johnson: Tapped to translate	Nov	3	25
may close as employees reject contract	Oct	13	27		Nov	17	27	toxic substances control law into ac-	Nov	17	19
Mansfield Tire & Rubber and Rubber				General Tire's Ashtabula, O., plant gas exposure litigation settled R	Nov	17	22	EPA will spell out how it will enforce			
Workers agree to a new 3-yr contract	Oct	20	17	Goodyear files suit against SEC to prevent foreign disclosure of its	1404		h. h.	TSCA	Nov	24	20
NL Industries closes plant in Sayreville, N.J. because of strike . N	Sept	22	19	overseas payments	Aug	4	14	ing Toxics Era"	Nov Dec	24 15	72 37
Rubber: Progress in URW talks	July	7	21	Hazardous Materials Transportation Act enforcement will be beefed up N	Sept	29	12	UC's carbaryl insecticide, Sevin, patent			
Talks go on	July	14	23 16	Helium breach-of-contract suit: awards				U.S. Steel-Republic case involving	Oct	20	18
'Cause for optimism'	Aug	18 25	13 23	to National Helium Corp. and Cities Service Helex	Nov	24	25	layoffs at company-owned coal mines: Supreme Court will decide			
Goodyear signs up	Sept	1	13	Kennedy to introduce legislation amend- ing the Food, Drug and Cosmetic Act				whether a state may refuse to pay	Oct	13	24
return to their jobs; Goodrich and				that would require "detailmen" to at-	Doc	22	20	unemployment compensation	OCI	13	27
Uniroyal talks deadlocked Goodrich and Uniroyal reach	Sept	8	23	tend certified training programs	Dec	22	20	ing by a uranium cartel are sent to Justice Dept.	Sept	8	24
agreement	Sept	15	14	Pesticides Lead-in-gasoline see Gasoline				Uranium enrichment: nuclear fuel assurance bill passed by House of			
termine the effects that thorium may	0	00	40	Louisiana tax assessor and sheriff, L.J.				Representatives	Aug	11	15
have on the human body	Sept	29	18	Millet, Jr., sentenced for attempting to extort money and favors from Du				Uranium incentive bill may get Congress okay N	July	21	9
fire-resistant hydraulic fluid U.S. Steel-Republic case involving	Dec	15	16	Pont's Pontchartrain neoprene facility near New Orleans, and attempted ex-				Waterways: Environmentalists and railroads team up to bar waterway			
layoffs at company-owned coal				tortion of Coastal Canning Enterprises Mining: limits on extraction of minerals		6	19	projectsN	Dec	15	10
mines: Supreme Court will decide whether a state may refuse to pay				from national parks assured of				Westinghouse counters breach of contract claims in uranium, charges			
unemployment compensation	Oct	13	24 32	passage N Mining: proposed controls on strip min-	Sept	29	12	price-fixing	Oct	27	23
Latin-American Food Production		15	32	ing of federal land are sidetracked . N Natural gas regulation see Natural Gas	Sept	29	12	Appeals court has ordered EPA to place			
Conference—Prices, production prob- lems get prime time at fertilizer parley	Oct	20	26	New Jersey bills would enable agencies				lead on list of hazardous pollutants Lead-in-gasoline see Gasoline	Nov	24	26
				to monitor industrial emissions and close plants that do not take corrective				Lead-in-paint: CPSC may lower the		00	
Allied denies Armco charges in coke				94th Congress: Many things left undone	Oct	13	26 61	allowable lead limit in paint Lead-in-paints limits will get another	Sept	22	14
suit	July	28	17	OSHA see Labor				review	Aug	4	10
expropriation in '71: arbitration ruling				Oil prices: House approves a measure that would decontrol the price of oil				Delco-Remy battery div	Dec	8	25
that OPI is liable for the losses upheld	July	28	27	from low-producing wells	Aug	18	13	OSHA sets voluntary guidelines N Outlook for metal makers: sparkling	Sept	8	21
Antitrust see Antitrust Asbestos: condominium suit over as-				nally concluded	Dec	8	18	Reflux refining will be tested to make leadN	Sept	8	64
bestos found in dust names Kaiser		20	24	Pesticides see Insecticides —Pesticides Phillips Petroleum indicted on charges				Superconducting devices called Josephson circuits made of super-			
ceiling texture product, K-spray Atomic plants get the nod from voters in		29	21	stemming from secret slush fund N Polaroid wins temporary injunction in a	Sept	8	18	cooled lead alloys	Dec	1	44
"Bottle bills": Colo., Me., Mass., Mich.	Nov	10	28	British high court restraining Kodak				Lead see also Tetraethyl Lead; Tetramethyl Lead			
voters will decide whether to set man- datory deposits on beverage				Ltd. from manufacturing and selling its range of instant-picture cameras and				tt			
containers; three of the measures also)			film in the U.K	Aug	18	13	Leasing Atlantic offshore lease sale draws \$1.14			
ban pull-tab cans	Oct	13	27	Pollution; Environment; Waste Dis-				billion	Aug	25	17
nonreturnable beverage bottles ap-	Nov	10	28	posal; Water Pollution Potash: Eight companies charged with a	1			Coal leasing bill: Ford veto overridden in	1	10	
proved	1	10	20	"combination and conspiracy" to restrain trade in potash from '69 to '74		7	22	Congress		18	10
to NL terminated		11	16	Potash: Smith & Brooks' price-fixing suit	t	,	22	Libya—Petrochemical complex slated N Lights—American Cyanamid's Cyalume	Sept	8	49
California's coastline protection bill would severely restrict the expansion	1			against potash producers in the U.S.	July	21	20	chemical light-sticks illuminate the clos-			
and new building of refineries and pe-				Product-liability suits may kill or damage your business. Take adequate				ing ceremony of the XXI Olympiad in Montreal		11	14
trochemical facilities within five miles of the coast	Sept	1	16	precautions (charts)	Nov	24	21	Liquefaction			
Canada: legislation to strengther domestic ownership of energy indus-	1			Red Dye see Dyes & Dyeing Reserve Mining seeking to overturn a				Ashland Synthetic Fuels' coal liquefac- tion plant at Catlettsburg, Ky., using H-			
tries	Oct	20	31 22	permit denial by two Minnesota envi- ronmental agencies		10	27	Coal process, groundbreaking	Dec	22	19
Carter: How Carter views CPI issues How he'll get along with Congress	Nov	10	23	Science superagency: Plan to combine	3	10	21	Coal liquefaction catalysts undergoing tests	Nov	3	18
Coal leasing bill: Ford veto overridden in Congress		18	10	science agencies tails to pick up steam	Dec	22	14	Foster Wheeler gets Algerian deal for natural gas liquefaction complex	r	28	17
Cosmetics: Senate bill would require	9			Senate plans revamped approach to)			West German coal liquefaction equip-		20	11
manufacturers to prove safety, efficacy of products	N Aug	11	10	energy and the environment N Tax reform bill: CPI's 1977 tax burden:		24	20	ment and know-how may be traded for Australian coal, aluminum and iron	1		
DNA regulation is issue	Dec	22	21	bigger but bearable (chart & table) Tenneco refinery unit in Louisiana explo-		29	15	ore	Aug	11	25
Discrimination charges Block Drug age bias charged	July	7	24	sion: negligence suit filed by the family of a workman killed		25	23	Chemical tackles international marke with specialties for papermaking	t	15	39
	/					20		min specialities for paper making	oepi	10	38

Little Duard H. Hornofina's troubleshoot				Michigan Chemical's president Paul F				Europe: Melamine makers face short-			
Little, Duard H.—Hercofina's troubleshoot- ing Texan takes on his toughest assign- ment	Oct	27	60	Michigan Chemical's president Paul F. Hoffman—His assignment: heat up sales of flame retardants	July	14	48	term glut as demand lags; technology improves yields	Nov	10	58
Lubricants	001		00	New York State's Energy Research and	oury						
Diethanolnitrosamine: Warning on oils . FEA: lift oil controls	Oct	20 28	20 22	Development Authority chairman, N. Richard Werthamer: He left the ivory				Membranes GE's ultrathin membrane may cut natural			
Markets for industrial oils and lubricants				tower for the political arena Nippon Zeon of America, Inc. president	Sept	15	56	gas bills	July	28	28
Prices N	Sept	28	32 22	Masayoshi Asano: He recovered handsomely from an early setback Novamont Corp. president Dono D'Alto:	Nov	3	29	contain LNG in ships	Oct	13	71
M				'Hot line' helps him carve out growing share of U.S. markets The Oil Shale Corp.: changing the name	Nov	24	92	synthetic membrane reported at ACS meeting	Sept	8	58
Magnesium Phosphate—Prices N Magnetics—Bubble memory storage: Re- searchers fabricate new synthetic		24	31	of the company to Tosco Corp. to be voted on	July	14	17	membrane for chlorine and caustic soda production N Mercaptans—Pennwalt expanding fa-	Nov	10	61
crystals for bubble memory data storage		6	41	manager Vincent A. Sarni: He set up a management team that can work				cilities at Vondelingenplaat, Nether-	Dec	15	17
Maintenance—Costs climb to new high in '75 (table)	lub	7	30	without him	Dec	22	52		000		
Malaysia—Fertilizer project to get IMC				Crockett: She welcomes the chance to			40	Mercury EPA ban softened	Sept	8	27
technology N	Nov	24	76	test business theory in practice Presidential Science Advisor H. Guyford	Aug	4	48	Metal Powder Industries Federation—5th	Aug	4	10
Maleic Anhydride Amoco's maleic plant uses Chem		20	0.4	Stever: After setting up new White House science office, he will spend				international powder metallurgy conference: Metal powder sales up	July	14	37
Systems technology N Ashland ready to start up new maleic			34	more time on fishing	Sept	22	40		,		
anhydride capacity at Neal, W. Va N Benzene-based maleic anhydride	Sept	29	33	ganized into four new corporate units SmithKline Corp.'s new president Henry	Oct	6	17	Metals AIChE meeting highlights search for			
plant	Oct	13	79	Wendt: Success in the drug business	0		40	substitute materials to head off grow- ing deficit in nation's natural resources			
anhydride? The verdict is not in yet	Oct	13	79	runs in the family	Oct	6	46	(chart)	Sept	8	53
Management Acquisitions and mergers see Industry				Miguel A. Ondetti: His 'temporary' job blossomed into a career in enzyme				Aug 25-36	Nov Sept	24 15	40 40
Developments and individual com-				chemistry	Oct	20	48	Japan's EA data shows that sea water	Sept	13	40
pany names in Company Index Ashland Synthetic Fuels Inc.'s Charles				Sumitomo Chemical America's president Toshihiko Tohno: He's help-				near the country has been polluted with heavy metals and PCBs	Sept	15	44
 D. Hoertz Jr., vice-president: He's get- ting a head start in the scramble for 				ing Japanese chemical giant get off	lade.	20	48	Metal-based chemicals prices N Outlook for metal makers: sparkling	July Sept	21	20 21
synthetic fuels	Dec	8	72	the ground in U.S	July	28		Output of many major minerals will continue to lag demand through			
out the business and made it into a winner		1	48	He's aiming to thrive on diversity UC forming new operations committee;	Nov	17	56	1985—USBM report (table) Resources shortages won't curb long-	Dec	8	60
Bell Labs' president William O. Baker: He's at home at the lab, the market-			40	president-elect Anderson will head	Dec	8	17	range economic growthN	Dec	1	10
place—and Washington	Nov	10	82	UC's William S. Sneath named chairman and chief executive officer	Nov	3	18	Methanol			
Chemical pricing worries Wall Street (charts)	Aug	4	11	USS Agri-Chemicals Div.'s president C.	1404	J	10	Alberta Gas' complex at Medicine Hat, Alta., additions approved N	Aug	11	9
Chemical and Specialties Management Council—Management council group:				M. (Max) Henderson: He plans to keep on pampering his customers	Dec	15	48	API reports on use of alcohols (princi- pally methanol) as fuels N		25	40
a place where small company chiefs	Oct	27	35	Manpower, technical—Toxicologists: Toxic Substances Control Act spurs				Celanese's Bishop, Tex., plant expan-			
discuss problems	Oct	6	17	drive to expand toxicology training pro- grams (chart & table)	Nov	17	38	sion	Aug	18	15
Diamond Shamrock's W. H. Bricker				Manufacturing Chemists Assn.				barge-mounted plants are the wave of the future	Nov	24	70
elected chief executive officer; C. A. Cash continues as chairman R	July	21	18	Acrylonitrile study shows no-effect level				Georgia-Pacific ammonia project calls for an increase of 6.4-million gal./year			
Distributors hear some tips on what to do before they retire	Dec	22	24	Annual meeting (26th) features panel		17	43	of methanol output Aug 4-16 ICI protein process mixes methanol and	Aug	11	11
Du Pont's Haskell Lab. of Toxicology & Industrial Medicine director Charles F.				discussion on product-liability issues Contracts for two studies relating to the	Nov	24	21	microbes	Nov Sept	10 29	63 27
Reinhardt: He chose occupational medicine because the hours were bet-				emissions of hydrocarbons N Meeting: Semiannual meeting in N.Y.	Oct	27	44	Netherlands plant	Sept	1	24
ter	Sept	8	80	highlights health	Dec	1	15	Sluggish housing hurts demand for methanolN	Aug	25	40
Weisse: He sees pollution control as the catalyst for an earning rebound	3	11	48	Era"	Nov	24	72	Syngas Co. plans synthetic gas, methanol, acetic acid complex near			
—letter Ferro Corp.'s president and chief operat-	Aug		5	Marketing				Deer Park, Tex	Sept	29	11
ing officer Adolph Posnick: He passed	i			Commodities futures market dialogue Fisons claims Syntex unit failed to fulfill	Dec	1	16	Methyl Chloride—Chlorinated hydro- carbons released in the atmosphere			
up chemistry in college—now he runs chemical specialty firm	Aug	18	40	antiasthma drug marketing pact Lea-Ronal, Inc. marketing small volume	Nov	3	20	detailed in study by Thomas Y. Palmer . Methyl Methacrylate—Plastic coating com-		15	43
Firestone Tire & Rubber diversifying into nonautomotive areas: Riley at St				of selected specialty chemicals Territorial allocations: Supreme Court	Aug	11	21	bats tooth decay: Japanese product		11	37
Louis Society of Financial Analysts Ford Motor's chief plastics enginee	r	t 29	20	will rule next spring on just how much control a manufacturer can exercise				called Enamite N Methyl-tert-butyl ether may help refiners	Aug		0,
Robert M. Gerrity: He heads drive to trim weight of cars by using more plas)			over where its products are sold N Massachusetts Institute of Technology—	Oct	27	18	maintain octane while phasing out lead	Dec	1	39
freeport Minerals' president and chie	Sept	t 29	38	First synthesis of working gene report at	0	0		Methylene Chloride—Producers are embarking on new round of capacity ex-			
executive officer Paul Wolff Douglas Lure of far-off lands has always beer	:			ACS meeting	Sept	8	58	pansions (chart)	July	14	39
a part of his thinking	Sept	t 1	43	Meat—Beatrice Foods will talk to the	Dec	15	42	Mexico Chemical buildup is coming on strong N	July	21	29
and secretary Herman W. Andre: This	S			Russian this week about supplying technology on processed meats	Dec	15	15	Emery broadens fatty acids interests in		4	9
chemist is at home in the lab and in Wall Street	Oct	13	88	Medical Developments				Mexico N Government limits chemical price		13	49
Hardwicke Chemical's president and chief executive officer James E				Abortion: vaginal implant containing				increases	Sept	29	17
Hardwicke, Jr.: Entrepreneur gets a kick out of developing new processes	Aug	25	60	prostaglandins can induce midterm abortions	Dec	1	17	Petrochemical industry: New pact paves way for buildup N	Dec	22	33
Hercules' Hercofina's Duard H. Little Troubleshooting Texan takes on his	:			Avicon Inc. introduces Avitene, fibrous collagen product used to halt bleed-				Peso devaluation will reduce earnings for many U.S. CPI firms	Sept	29	18
toughest assignment	Oct	27	60	ing	Sept	22	32	Polifil's formula for success: stay close to customer	Oct	6	29
killed in plane crash	Oct	6	20	business for many CPI companies Growing potential for P/M parts and	July	21	31	Meyer, Richard—Jovan Inc. president: The sweet smell of musk lured him from ad-			
Jovan, Inc.: Musk oil was only the star for Jovan, now branching out into	0		00	metal powder coatings in implants for orthopedic, dental and cardiovascular	1			vertising to selling perfumes Microprocessors—Silicon chip technology	July	7	44
other lines	July	7	28	surgery	July	14	37	makes analytical instruments faster and		10	05
smell of musk lured him from ad	-		48	Urethane, silicone resins form protheses to "rebuild" facial parts after surgery.	Dec	15	42	more accurate Middle East—Europe sees no threat from		18	25
vertising to selling perfumes	1			Medical Developments see also Health				Middle East see also individual countries	Nov	3	27
president	Dec	8	17	Melamine American Cyanamid doubling capacity	,			Minerals—Output of many major minerals will continue to lag demand through			
Korn/Ferry surveys Executive demand shifts	July		22	of methylated melamine coating resir	1	6	13	1985—USBM report (table)	Dec	8	60
Executive demand up	. Dec	15	16	plant at Kalamazoo, Mich N Dumping: Melamine Chemical charges	3	0	13	Mining			
followed a straight line to the top in re search	-	21	44	Nissan Chemical with dumping melamine in U.S. markets	Nov	24	26	Australian mining firms get investmen break		25	18

Coal leasing bill: Ford veto overridden in	A	+0	10	Bolivian gas' price to Argentina	feder	20	40	Nitrosamines			
Congress	Aug	18	10	increased N Canada: BC focus on gas and oil	July Dec	28	42 35	Eli Lilly resumes production of her- bicide, Treflan trifluralin after tests			
ing know-how to U.S N	Aug	18	23	Chemical Week 300—report (tables)	Mari			show herbicide is not carcinogenic	Sept	29	18
EPA's underground injection limits may doom Frasch mining N	Dec	22	40	Aug 25-35	Nov Aug	24	37 13	UC finds nitrosamines traces in Ucon fire-resistant hydraulic fluid	Dec	15	16
Freeport Minerals developing mine in		-		Foster Wheeler gets \$1-billion Algerian				Nobel Prizes-1976 Nobel Prize in			,
Indonesia means many social prob- lems (map)	Sept	1	26	deal	July	28 29	17 31	chemistry awarded to Professor W. N. Lipscomb of Harvard Univ. for his work			
National parks: limits on extraction of	oopi		20	Italian manufacturers challenge gas				on boranes; six other Americans receive			
minerals from national parks assured	C	29	12	gulf and Texas Eastern gas conspiracy	Oct	29	31	Nobel Prizes	Oct	27	22
of passage	Sept	29	12	hinted: FPC's Zimmet calls for a Jus-				Norway—West Germany, Norway studying joint projects in oil and natural gas N	Sept	1	25
ing (chart)	Dec	8	15	tice Dept. antitrust investigation	Aug	25	24	Nuclear Regulatory Commission—Agency			
Strip mining: proposed controls on strip mining of federal land are sidetracked				Gulf Coast is losing big edge on gas prices but that's the region where gas				charged with covering up dangers at atomic power plants N	Dec	22	14
	Sept	29	12	is available (charts)	Aug	11	11	Nujoma, Sam-Would welcome foreign in-			
Mining see also Underwater Mining Monoammonium Phosphate—Formula-				LNG: Indonesian plant at Badak LNG: Reinforced plastic membrane will	Sept	8	51	vestors to Namibia, limit profits	Oct	13	52
tions employed in home fire extin-				contain LNG in ships N	Oct	13	71	Nylon			
guishers	Dec	22	30	LNG floating plants: Designers believe barge-mounted plants are the wave of				Bayer will discontinue nylon production	Dec	22	21
Monomera				the future	Nov	24	70	California art experience a "running		-	
Alcolac's Sedalia, Mo., plant for the				LNG tank towed on a specially constructed barge from Charleston,				fence" made of Du Pont nylon	Sept	29	19
production of functional monomers	Nov	17	22	S.C. to Quincy, Mass	Dec	15	18	Fiber makers bank on upturn in '77; who makes what and how much (chart &			
and other specialty chemicals R MCA study shows non-effect level for		17	22	Nuclear Dynamics' subsidiary N.D.				table) Prices N Nov 10-57	Nov	3	34
acrylonitrile	Nov	17	43	Petroleum Corp. to search for oil, gas	Sept	1	9	Prices N Nov 10-57	Dec	8	28
producer	Sept	15	24	Offshore Atlantic lease sale draws \$1.14			17	•			
Styrene monomer prices N	Dec	8	14	billion	Aug Sept	25	17	0			
VCM: Cancer experts debate whether there are threshold limits for chemical				Offshore oil, gas potential study N		22	40	A			
carcinogens	Sept	22	29	Plant sites 1977—report. John M. Winton				Occupational Safety & Health Administration			
VCM: EPA sets limits on VCM emissions	Oct	27	18	How industrial power costs, charges				Federal Paperwork Comm. says OSHA			
VCM: PVC markets spawning expansion	001			for coal, oil and gas and reserves compare (table)	Nov	10	48	can reduce its paperwork and simplify compliance with its rules	July	7	25
in monomer capacity (tables) VCM: Robintech negotiating for	Sept	15	34	Price fight: chemical companies support	1404	10	40	compliance with its rules	Nov	17	14
purchase of Allied's Baton Rouge, La.,				gas price deregulation, but battle				Ocean exploration and mining see Un- derwater Mining			
Complex	July	21	9	against moves that would tend to im- pose end-use pricing	Dec	1	41	Octanes-Lead phase-down in gasoline			
challenge of VCM standards N	Dec	15	40	Prices: FPC changes stance on gas		07	40	poses threat to key petrochemical feed-	Sept	15	11
VCM: Tenneco pioneers activated-				price hikes	Oct	27	18	stocks (charts) Odor Control—Air-freshener system based	Sepi	13	11
carbon adsorption for VC emission control; one of several methods				ens-viewpoint	Dec	15	5	on thin-film technology	July	28	37
producers are licensing	Aug	11	35	Shortage of natural gas this winter will be "worst yet" but will not hurt CPI (table)	Sept	22	12	Office of Science and Technology			
VCM prices	Sept	8	55	Transcontinental Gas and Florida Gas	oopi			Policy			
power costsN	Aug	18	23	seek FPC okay for gas pipeline in	Aug	4	9	Science is back in style at White House—Viewpoint	Sept	1	5
Mount Sinai Medical School—Selikoff at MCA meeting highlighting health	Dec	1	15	Gulf N West Germany, Norway studying joint	- lug			Stever, H. Guyford, Presidential Science			
Mouthwashes—Cetylpyridinium chloride	Duo		10	projects in oil and natural gas N Nauru, Republic of—Joint phosphoric acid	Sept	1	25	Advisor: After setting up new White House science office, he will spend			
mouthwash ingredient may help in battle against cancer	Oct	27	44	venture in India	Oct	27	41	more time on fishingOil shale see Shale Oil	Sept	22	40
-9				ivavai Stores—Global look: Third interna-							
				tional Naval Stores meeting	Oct	27	34				
N				tional Naval Stores meeting	Oct	27	34	Oils and Fats			
N				Netherlands Akron meeting of Dutch government of-		27	34	Olls and Fats Coconut derivatives unit for Philippines N	Dec	8	41
Namibia				Netherlands Akron meeting of Dutch government officials and Goodrich representatives		27	34	Oils and Fats Coconut derivatives unit for Philippines			
Nujoma, Sam would welcome foreign in-	0-1	10	50	Netherlands Akron meeting of Dutch government of- ficials and Goodrich representatives ends without an agreement on the fu-			34	Olls and Fats Coconut derivatives unit for Philippines N		8 28	41
Nujoma, Sam would welcome foreign in- vestors, limit profits	Oct	13	52	Netherlands Akron meeting of Dutch government of- ficials and Goodrich representatives ends without an agreement on the fu- ture of Vredestien Closer on Dutch accord		27 14 28		Oils and Fats Coconut derivatives unit for Philippines N Markets for industrial oils and lubricants N Olefins			
Nujoma, Sam would welcome foreign investors, limit profits Southern Africa CPI investors are wary, but bullish about long-term prospects	Oct Oct	13	52 50	Netherlands Akron meeting of Dutch government of- ficials and Goodrich representatives ends without an agreement on the fu- ture of Vredestien Closer on Dutch accord DSM plans polypropylene plant at Beek	July July	14 28	21 22	Oils and Fats Coconut derivatives unit for Philippines N Markets for industrial oils and lubricants N Olefins Exxon's complex at Baytown, Tex., ap-	July		
Nujoma, Sam would welcome foreign investors, limit profits Southern Africa CPI investors are wary, but bullish about long-term prospects National Academy of Sciences—Fluo-	Oct	13	50	Netherlands Akron meeting of Dutch government of- licials and Goodrich representatives ends without an agreement on the fu- ture of Viredestien Closer on Dutch accord DSM plans polypropylene plant at Beek Government buys 49% of International	July July	14	21	Oils and Fats Coconut derivatives unit for Philippines N Markets for industrial oils and lubricants N Olefins Exxon's complex at Baylown, Tex., approved N Nov 24-19 N UC finds pyrolysis fuel oil causes cannot	July	28	32
Nujoma, Sam would welcome foreign in- vestors, limit profits. Southern Africa CPI investors are wary, but bullish about long-term prospects National Academy of Sciences—Fluo- rocarbon report Aerosol makers look for substitutes.	Oct Sept			Netherlands Akron meeting of Dutch government of- ficials and Goodrich representatives ends without an agreement on the fu- ture of Viredestien Closer on Dutch accord DSM plans polypropylene plant at Beek N Government buys 49% of International B.F. Goodrich Europe: additional 2%	July July Dec	14 28 8	21 22 41	Oils and Fats Coconut derivatives unit for Philippines N Markets for industrial oils and lubricants N Oleflins Exxon's complex at Baylown, Tex., approved N Nov 24-19 N UC finds pyrolysis fuel oil causes cancer in mice N	July	28	32
Nujoma, Sam would welcome foreign in- vestors, limit profits Southern Africa CPI investors are wary, but bullish about long-term prospects National Academy of Sciences—Fluo- rocarbon report Aerosol makers look for substitutes National Agricultural Chemicals Assn.—	Oct Sept	13 22	50 10	Netherlands Akron meeting of Dutch government of- ficials and Goodrich representatives ends without an agreement on the fu- ture of Vredestien Closer on Dutch accord DSM plans polypropylene plant at Beek N Government buys 49% of International B.F. Goodrich Europe; additional 2% sold to a Dutch foundation Methanol plant	July July Dec	14 28	21 22	Oils and Fats Coconut derivatives unit for Philippines N Markets for industrial oils and lubricants N Oleffins Exxon's complex at Baylown, Tex., approved N Nov 24-19 N UC finds pyrolysis fuel oil causes cancer in mice Noleum—Allied's barge upset in Chesapaeake Bay: 1,000-100 roleum spill disapped to the control of the c	July Dec Aug	28	32 13 44
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Nujorna, Sam would welcome foreign investors, limit profits Southern Africa CPI investors are wary, but bullish about long-term prospects National Academy of Sciences—Fluorocarbon report Aerosof makers look for substitutes National Agricultural Chemicals Assn.— Meeting: New pesticide rules draw industry lire National Assn. of Chemical Distributors	Oct Sept Sept	13 22 29	50 10 17	Netherlands Akron meeting of Dutch government of ficials and Goodrich representatives ends without an agreement on the future of Vredestien Closer on Dutch accord DSM plans polypropylene plant at Beek Government buys 49% of International B.F. Goodrich Europe; additional 2% sold to a Dutch foundation Methanol plant Pennwalt expanding mercaptan facilities at Vondelingenplaat R New Mexico State University—Phochemical scheme for storing sunlight as	July July Dec Oct Sept Dec	14 28 8 27 29	21 22 41 23 27	Oils and Fats Coconut derivatives unit for Philippines N Markets for industrial oils and lubricants Exxon's complex at Baylown, Tex., ap- proved N Nov 24-19 UG finds pyrolysis fuel oil causes cancer in mice. Noteum—Allied's barge upset in Ches- apeake Bay: 1,000-100 roleum spill dis- sipated safely Ondetti, Miguel A.—Squibb Inst. for Medical Research's director: His 'temporary' job blossomed into enzyme	July Dec Aug Sept	28 22 25	32 13 44 14
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capacity in Texas N Oct 27 17 good year ahead in Europe N Dec 8 42 operations in Europe N Dec 8 42		25	44
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take first step toward petrochemical deals with private Western companie			
Computerized screening of patents— Saudi-Japanese petrochemical complex West Germany, Norway studying join	July	7	31
ment" July 21 34 South Korean petrochemical project is Williams Pipe Line's crude oil expansio	Sept	1	25
Polaroid charges Eastman Kodak with moving ahead N Oct 27-27 R Nov 24 16 includes a new pipeline section from Spanish complex cuts imports, raises	Aug	-11	16
patents	Sept	29	27
study (lable)	-		
dropped Oct 20 18 petrochemical area of the U.S., Dow's Coconut derivatives unit	Nov	8 24	41 76
high-profit markets for ground peanut symposium at Texas A&M Sept 22 17 Foreign investors sought for \$1-billion shells, in animal feeds and as diluents Nov 17 46 Venezuela's national petrochemical plan		29	25
Pectin—Home canning comeback spurs specialties sales			
continuous process reduces hazards of N July 7 31 along with a 40% stake in a joint phos			
making percarbonate Oct 27 42 Pertunes Pertunes Pertunes Phase mining venture to be set up Florida	Aug	4	29
Grayson Associates' fragrances work-	Dec	22	29
Jovan, Inc.: Musk oil was only the start Alexandrian Coast N Dec 8 27 Germany		4	29
other lines July 7 28 Brazil: Camacari \$2-billion petro-	Aug	11	25
creating new markets for fragrances . Oct 20 29 start	July	7	18
Lucidol's new continuous process and oil Dec 22 35 abroad	July	21	25
nate Oct 27 42 likely to exceed the projected average Sept 8 28 report	July	14	32
Peru-Talara carbon black plant expansion	Oct	20 24	26 31
Service and ERDA share costs N July 14 17 U.S. phosphate producers are teaming the European fertilizer makers in a business of the European fertilizer makers in a busin	9	24	31
Benzene see Benzene France litts restrictions on oil product imports	N Aug	4	29
chemical complex off to a smooth French oil merger to strengthen fertilizer boom forecast for 1978-197	;	8	15
Brazilian Petrochemical Congress: pet- rochemical drive may be curbed as Fuel oil from farm and forest wastes pilot	-	8	59
government attempts to cut giant plant started up in Albany, Ore N Dec 22 40 foreign debt and trade deficit Dec 1 27 Imports see Import			
California: Building of Dow styrene unit Mexico: Pemex has big plans Sept 29 17 Bartow Chemical's Florida phosphor in leopardy over environmental North Slope crude oil: Benzene and xy-		1	9
challenge July 21 15 renes could give Alaska crude eco- 15 inal decision' will be made next nomic advantages Nov 17 43 intreventure in India	Oct	27	41
Styrene monomer plant gets second Petroleum Corp. to search for oil, —letter	July	14	19
'no' Aug 25 24 gas. N Sept 1 9 Prices ARB in San Francisco to reconsider Offshore Allantic lease sale draw\$1.14 South Africa: Federale Kinsmis' u	Nov	24	31
denial of construction permit . Sept 1 26 billion	N Dec	15 7	21 42
ment pattern Oct 27 50 Offshore oil Turkish plant at Bandirma, Turkey	N Oct	20	31
Dow appeals for plant Nov 10 30 Exxon plans to process crude oil off Phosphorus—Industry is climbing back California's coastline protection bill coast of Santa Barbara, Calif N Dec 15 39 peak attained in '69. Gains in oth would severely restrict the expansion New England oil drilling project will not outlets counteract setback in deterger	r		
and new building of refineries and be particularly hazardous to the en-	. July	14	19
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1970s to European customers of Shell Oil cautious on offshore Polymer Corp. (Polysar) disclosed. N Dec 8 42 California off lind	N Sept	15	9
FEA: lift oil controls July 28 22 Oil quotas see Imports Feedstocks PFS facilities at new complex in Bra Oil shale see Shale Oil planned by Monsanto N Sept 15-	il, Sepi		
Benzene or butane feedstock for Oil spills see Water Pollution Stauffer doubling capacity at Morrisvi maleic antworked? The verdict is not Oil substitutes: K.M. Thompson at AIChE Pa. unit and considering new cap	e, 0-		
in yet Oct 13 79 meeting Sept 8 53 ity at Mt. Pleasant, Tenn	N Sepi	t 15	9

Phosphorus Trichloride—FMC's Nitro, W.Va., plant to double capacity R	Dec	15	17	Automotive market (charts)	Aug Sept	18 29	11 20	Japan's EA data shows that sea water near the country has been polluted	Cont	15	44
Photography Polaroid charges Eastman Kodak with				Bottles see Bottles Chemical Week 300—report (tables) Aug 25-37	Nov	24	41	Massachusetts: PCB contamination in shellfish found as high as 53 parts/			44
infringement of 10 Tanadium photo patents	Oct	6	20	Foam see Foams Formica Corp.'s Evandale, O., plant expansion N Israel develops new photodegradable plastic N Markets rehound (chart)	Nov	17	13	million	Sept	29	18
British high court restraining Kodak				Israel develops new photodegradable	1101			been discovered among 129 em-			
Ltd. from manufacturing and selling its range of instant-picture cameras and				Markets repoured (Criair)	Nov	17 24	27 32	ployees at Paulsboro, N.J., refinery who had been exposed to PCBs	Sept		13
film in the U.K	Aug	18	13	Pipes: Calcium carbonate cuts cost of PVC resins for plastic pipe N	July	14	29	Monsanto phase-out plan	Oct	13	24
Phthalic Anhydride Iran-Japan phthalic unit onstream in				Plastic resin production exceeds sales		28	32	votes toxic bill; Dingell amendment would ban PCB production in three			
	Oct	20 29	31	and use	outy	20	OL.	years	Sept	1	13
Stepan increasing capacity at its				process for plating without the use of palladium catalysts	Aug	11	21	Polyester			
Hillsdale (Joilet, III.) complex N	Aug	25	17	Plating-on-plastics technology elim- inates precious-metal catalysts N	Nov	24	76	Blimps: Airing blimp projects	Dec	15	18
Plgments BASF's phthalocyanine pigment plant				Resin shipments drop below production in Oct	Dec	22 .	29	Bottles: Continental Group will make	Dec	8	19
in Ludwigshafen, W. Germany,	July	21	18	SPI survey finds product-liability in-				plastic bottles N	Sept	22	19
Food colors from natural sources: Mc- Clelland says four classes of natural	,			Starch-to-plastic route commercialized	Dec	8	18	China buys polyester from Celanese, Hoechst N DOT hazardous materials regulation	Dec	1	25
substances are promising	Aug	4	22	in Japan N Thermoplastics: Ford's metal-stamping	Oct	13	71	controversy	July	14	2,1
Piping				presses turn out large automotive parts from thermoplastic sheet N	Oct	20	39	Du Pont's Cooper River polyester fiber	Dec	8	28
Alaskan pipelines Long Beach, Calif. deep-water petro-				Thermoplastics: UC's engineering ther-	000		00	Fiber makers bank on upturn in 1977;		-	
leum lease sought by Sohio Trans- portation	Oct	20	9	moplastic Radel polyphenylsulfone material N Thermoplastics use falls behind	Oct	6	36	who makes what and how much (chart & table)	Nov	3	34
Trans-Alaska Pipeline system: investi-	Oct	20	9	output—SPI report N	Sept	29	40	China N	Nov	17	27
gations of construction foul-ups could delay startup date	July	28	21	Production and consumption N Output continues gain N	Oct	27 17	28 44	Olympia Industries' yarn packaging and dyeing plant in Tuscaloosa, Ala., to			
Weld inspection work won't delay oil pipeline's '77 startup. Congress				Wood: "Plastics Synthetic Wood"				close	Dec	15	15
seeks early decision on route for North Slope gas (map)	lader	7	19	Ptastics see also specific plastic	Nov	10	78	Fiber N Nov 10-57 N	Dec	8	28
Kitimat Pipe Line asks permit for oil	July	,	19	Plating				Filament N Film N	Oct	13 28	37 32
pipeline from Kitimat, B.C., to Edmonton, Alta.	Dec	22	35	Borg-Warner's DRI-CAT 3, dry palla- dium-containing catalyst for electro-				Film N Resin N Yarn N Nov 10-57 N	Sept	22	19 29
Natural gas shortage pinpointed by	Sept	22	12	less (nonelectrolytic) plating of metals	Cont	1	40	Taiwan: polyester fiber plant R TPA routes: Two experimental syntheses	Dec	8	43
pipeliners (table)		14	29	Lea-Ronal develops new process for		,	40	start with toluene instead of the more			
Sodium azide poses threat of explosion				plating on plastics without the use of palladium catalysts	Aug	11	21	expensive p-xylene now used in most industrial processes	Oct	13	67
in hospital plumbing systems N Transco and Florida Gas seek FPC okay		1	10	Plating-on-plastics technology elim- inates precious-metal catalysts N		24	76	Toluene may be the raw material for polyester fibers in Japan N	Aug	4	40
for gas pipeline in Gulf	Aug	4	9	Platinum	1401			Polyethylene	, tug		-
Washington superport plans to be re- considered	Aug	18	9	Chicago Mercantile Exchange plans to				Bottles: Beverages pace boom in plastic		05	
includes a new pipeline section from				list a futures contract	Aug	4	9	Bottles: Minneapolis bans sale of	Aug	25	41
lowa to Minnesota R	Aug	11	16	search	Sept	8	74	nonreturnable 1-gal. HDPE milk bot- tles	Nov	24	26
Plant Location California: Dow styrene unit in jeopardy				process plutonium from reactors N Poland—Polimex-Cekop will get caustic	Oct	13	18	Ethylene consumption leads to resurgence in demand	Sept	29	41
over environmental challenge	July	21	15	evaporator system from Whiting Co F	July	7	24	European producers pushing polyolefin		15	43
month N Styrene monomer plant gets second	July	28	17	Politics				paper		15	29
'no' ARB in San Francisco to reconsider	Aug	25	24	Can Carter debottleneck nuclear power? Likely outcome: need for more ura-				LDPE: Shell Chemicals U.K. expansion plans at Carrington, Manchester			
denial of construction permit	Sept	1	16	nium processing (chart & table) Carter: His platform calls for more	Nov	17	17	N Sept 1-25 N LDPE market lags (chart)	Oct	13	49 32
California plant may get U.S. enforce- ment pattern Dow appeals for plant	Oct	27	50	federal action to treat economy Carter: How Carter views CPI issues	July	21	15 22	LDPE output climbs, film resin tabs weaken		20	25
Dow appeals for plant	Nov	10	30	How he'll get along with Congress	Nov	10	23	LDPE prices: Japanese price hikes put		18	
would severely restrict the expansion and new building of refineries and				Carter appointments	Dec	22	20	off as recovery lags N Photodegradable plastic N	Aug	17	26 27
petrochemical facilities within five miles of the coast		1	16	energy conservation	July	14	18	Polyethylene Terephthalate			
Floating plants: ammonia plant from	1	,	10	comes campaign issue	Sept	15	9	Amoco licenses Du Pont's patents on plastic bottles made from PET N	Sent	15	9
West German firms would be mounted on a barge	Oct	13	71	Viewpoint	Nov	10	5	PET bottles: Continental Group and		10	3
Ploating plants: ammonia-urea barge plants may go to Mideast N	Sept	22	9	Muskie may step down as chairman of Senate pollution subcommittee !	V Sep	1	10	Hoover Ball & Bearing plan to produce PET bottles; Du Pont declares that it			
Floating plants: Designers believe barge-mounted plants are the wave of	3			94th Congress: Many things left undone Republican platform: GOP banks on in	-	13	61	will take steps to enforce its patents if they are infringed upon	Oct	6	17
the future	Nov	24	70	Stever, H. Guyford to be confirmed a	Aug	25	22	Plastic bottles get OK	Oct	27	24
crude oil off coast of Santa Barbara		45	00	science advisor to President ! Science is back in style at White	Aug	4	10	process for chemical waste disposal . N	July	28	42
Muskegon, Mich. waste-treatment 'farm	'	15	39	House—Viewpoint	Sept	1	5	Polymers			
irrigates and fertilizes land, attracts in- dustry		15	51	After setting up new White House	9			Dynapol's polymer-bound food colorants	Aug	4	21
Plant sites 1977: it's north's move— report. John M. Winton (charts, tables				science office he will spend mon time on fishing	Sept	22	40	Emulsion polymer prices N Modifier prices N	Sept	8	55 22
maps)	Nov	10	35	Polybrominated Biphenyl (PBB) – Michigan investigating the health effect	S			Rohm & Haas' clay-reactive polymer wins FDA packaging clearance N	Oct	20	25
and chemicals	Aug	11	31	of PBB	Nov	10	31	UC emulsion polymer capacity expanded at latex plants in Atlanta,	1		
Plants—Gazocean expert sees future pet- rochemical complexes as multinational	ıl			Polychlorinated Biphenyls				Dallas and N.Y N Polymethylmethacrylate—Preformed high-	Aug	4	19
ventures, linked by ship (tables)	Dec	8	44	GE and N.Y. State's Environmental Con servation Dept. agree on program t	0			impact acrylic protects and improves the	9		
Plastic Film LDPE output climbs, film resin tabs				deal with PCBs in the Hudson River. GE capacitor plants will use activate		15	14	appearance of teeth	1	17	46
weaken	Oct	20	25	carbon to meet EPA's new PCB standards	. Aug	4	34	polyolefin paper	Sept	15 24	43
Mobil's Plastics Div. plans PP packaging film plant at Shawnee, Okla	? Aug	4	16	GE gets grant to test silicon fluids as re	-			Polyphenylsulfone—UC's engineering	3		
Polyester film prices	1 July	28	32	placements for PCBs	S	10	20	thermoplastic Radel PPS material N	OCI	6	36
Plasticizers CMRA meeting: Amoco's Cekis	S			action suit against GE and Monsant as a result of the closing of portions	of			Polypropylene Canada: Hercules plant delayed by elec-			
forecasts plasticizer markets	Nov	24	90 72	rivers near Rome, Ga	. Sept	29	18	tricians strike	V Sept	15	21
Plastics		,,,	-	continue: Monsanto undertakes ir house health study of workers; leve	1-			panies building plants	N Dec	8	41
Additives: Rubber and plastic additives				of PCBs in fish in some areas	of			paper Mexican PP fiber maker Polifil's formul	Sept	15	43
seek growth in new areas as auto market slows	Nov	24	84	Pickens County, S.C. found; mother milk analyzed	. Sept	1 8	26	for success: stay close to customer.	a Oct	6	29

'mini BULK', British-developed woven PP container	Oct	27	34	CW Stock Prices II. Other chemical process companies (tables) July 7-26,				Railroads Environmentalists and railroads team up			
Montedison will use new polypropylene technology in Novamont, La Porte,				July 21-19, Aug 4-17, Aug 18-16, Sept 1-19, Sept 15-19, Sept 29-24,				to bar waterway projects N [Freight rates see Freight Rates)ec	15	10
Prices: Japanese price hikes put off as	Sept	29	25	Oct 13-28, Oct 27-26, Nov 10-32, Nov 24-28, Dec 8-26	Dec	22	23	Hazardous materials see Shipping Hazardous materials			
recovery lagsN	Aug	18 28	26 42	Distributor functional allowances (DFAs) are being jeopardized by a number of				ICC criticizes DOT's rail classification . N	Dec	8	27
Polystyrene				Great Britain: Pound devaluation spurs	Dec	22	4	Rare Earths	n		40
Bottles: Beverages pace boom in plastic	Aug	25	41	call by U.S. firms in U.K. for okay to	Oct	20	16	Chinese tout 'rare-earth microfertilizer' N S Plating-on-plastics technology elim-			40
Ethylene consumption ups production .	Aug Sept	29	41	Mexico limits chemical price increases N	Oct	13	49	Rayon-Fiber makers bank on upturn in	Nov	24	76
Excess capacity will plague producers through 1980 says USS' Sundra	Sept	29	21	Wholesale price index—BLS reports	Oct	20	14	1977; who makes what and how much (chart & table)	Nov	3	4
Prices N Sept 8-55 N Production and sales—SPI figures N	Dec	8	14		July Aug	21 18	18 15				
Resinor, joint venture, in Brazil Polyvinyl Alcohol—Spain: McKee to build	Sept	15	24	Wholesale prices up	Oct Nov	13 17	27	Argonne National Lab.'s conceptual			
PVA plant	Oct	20	31	Prices up (table)	Dec	15	16	design for a reactor that could produce electricity by means of fu-			
Polyvinyl Chloride				modity, etc.				sion	Dec	15	32
Chlorinated hydrocarbons released in the atmosphere detailed in study by	-			Printing—Chemical Week 300—report (ta- bles) Aug 25-39	Nov	24	51	Fast-breeder, gas-cooled nuclear reac- tors get a boost in Japan	Aug	25	44
Thomas Y. Palmer	Sept	15 18	43 18	Process Equipment—Chemical process equipment orders spurt	Sept	8	17	Helium Breeder Associates aims at gas- cooled breeder reactor by late '80s . N	Nov	24	76
Ethylene consumption ups production .	Sept	29	41	Production		-		Nuclear reactor will be developed by U.SEuropean team N	Nov	10	61
Firestone plans plant at an unspecified site	Sept	8	28	Industrial production-FRB figures		27		Saudi Arabia plans fast-breeder re- search program N		27	44
Goodrich Chemical's new PVC com- pounds cut flame-spread and smoke				ISA meeting and show: ways to improve	Oct	27	24		OCI		44
Kloeckner-Pentaplast plans U.S. plant N	Sept	15 17	47 13	manufacturing productivity Operating costs: To hold margins, price	Oct	20	36	Reagents Baker, J.T. Chemical facility at		1	
Markets spawning major expansions in resin, monomer capacity (tables)	Sept	15	34	hikes proliferate (chart & table) Operating rates rise: McGraw-Hill Eco-	Oct	20	14	Winchester, Va. expansion com-	Sept	29	21
PVC monomer prices	Sept	8	55	nomics Dept. report	Dec	8	18	Boranes: Research on boranes could			
producer Shintech sold to Shin-Etsu Chemical N	July	21	9	ing rates will bolster CPI 1976 earnings (charts) U.S. International Trade Comm. and the	Oct	6	15	Diagnostic chemicals are becoming big	Dec	15	33
Swedish-Norwegian joint venture PVC plant for Denmark	Aug	18	26	Commerce Dept. plan to establish				business for many CPI companies Reese, Michael Hospital & Medical	July	21	31
Tenneco pioneers activated-carbon ad- sorption for VC emission control; one				comparable figures for exports, imports, domestic production	Sept	1	11	Center—Celtylpyridinium chloride mouthwash ingredient may help in battle			
of several methods producers are li- censing	Aug	11	35	Propylene—Antwerp recovery unit contract goes to Foster Wheeler Italiana				against cancer N	Oct	27	44
VCM see also Monomers	Aug	11	33		Dec	15	9	Refining			
Polyvinylpyrrolidone gel: vaginal implant containing prostaglandins suspended in	_			Prostaglandins: vaginal implant containing prostaglandins can induce midterm				Allied's refinery and related units to be sold to Carter & Schuler and Inde-			
PVP gel can induce midterm abortions .	Dec	1	17		Dec	1	17	pendent Refining Corp N California's coastline protection bill	Aug	4	9
Poromeric Materials Inmont introduces a new version of its				Great Britain's ICI plans single-cell pro-				would severely restrict the expansion and new building of refineries and			
Porvair Plus	Aug	25 25	40 40	tein plant at the Billingham, Cleveland, complex N	Oct	6	31	petrochemical facilities within five	0		40
Portugal—Aromatics complex by Petrogal				ICI protein process mixes methanol and				Companies (3) outline efforts to boost	Sept	1	16
Posnick, Adolph—Ferro's president and	Nov	24	62	Straw is converted into feed containing	Nov	10	63	their earnings on each barrel of petro- leum handled by increasing the pro-			
chief operating officer: He passed up chemistry in college—now he runs				up to 12.5% protein N Protheses—Urethane, silicone resins form	Oct	20	39	nortion that is upgraded into net-	Nov	10	25
chemical specialty firm	Aug	18	40	protheses to "rebuild" facial parts after surgery	Dec	15	42	rochemical products Feedstocks see Petrochemicals Maine: Pittston oil refinery at Eastport,			
Potash				Surgery Publisher's Page—New Chemical Week service—CAPS, Chemical Availability				Me. faces Canadian opposition	Dec	15	17
Canada: Saskatchewan acquiring Duval mine and mill	Aug	18	15		Aug	18	5	Maine Refining & Petrochemical's com- plex of petrochemical plants with a big			
Mine capacity expansion N Canada: Saskatchewan potash will	Nov	10	57	Pulp and Paper				refinery as the hub in Maine N MTBE from Snamprogetti may help	Aug	18	9
remain competitive Blakeney assures fertilizer users	Sept	29	26	API's annual capacity survey (chart) Boise Cascade's strike ends: production	Oct	13	25	refiners maintain octane while phasing out lead	Dec	1	39
Fertilizer markets up in U.S., down		21	25	resumes at four West Coast mills R Brazilian kraft pulp mill R	Aug	17	16 22	Octane crunch: lead phase-down in gasoline poses threat to key pet-			
Fertilizer year ends on a strong note—F				Chemical Week 300—report (tables) Aug 25-39	Nov	24	51	rochemical feedstocks (charts)	Sept	15	11
report	July	14	32	European market for specialties up	Sept	15	40	Pakistan plans refinery near Multan R Reflux refining will be tested to make	Oct	27	25
system at its Wendover, Utah, com-		21	18	European producers pushing polyolefin paper FMC anticipates probable shutdown in	Sept	15	43	lead	Sept	8	64
plex				June '77 of Ketchikan Pulp mill	July	7	21	(tables) Aug 25-38	Nov	24	50
restrain trade in potash from '69 to '74 Potash Institute's Wagner at Latin-	. July	7	22	Health hazards in paper industry to be studied	Oct	20	10	Lab. for Toxicology & Industrial Medicine: He chose occupational			
American Food Production Problems	3	-	00	studied	Dec	15	47	medicine because the hours were better	Sept	8	80
Prices N July 21-20	Oct	20 27	28 28	bark chemicals has won a prize, but	D	00	00	Research			
Smith & Brook's price-fixing suit agains U.S. potash producers	t	21	20	not customers	Dec	22	39	ACS fare: from genetics to solar energy Behemoth found in diatomite quarry	Sept	8	58 26
Potash Institute—Wagner at Latin- American Food Production Problems				Vinings Chemical tackles international	Sept	1	40	Boranes: Research on boranes could	001		20
Conference		20	28	market with specialties for papermak- ing	Sept	15	39	open up new bigger uses for these versatile reagents	Dec	15	33
Potassium Carbonate				Pulp and Paper Institute of Canada-	oopi	10	00	Bubble memory storage: Researchers fabricate new synthetic crystals for			
Diamond's Electro Chemicals Div. wi expand capacity at Muscle Shoals				Thomson, K.M. at AIChE meeting dis- cusses oil substitutes	Sept	8	53	bubble memory data storage	Oct	6	41
Ala	R July	21 27	18 28	Purchasing				threshold limits for chemical carcinogens	Cont	22	29
Prices	Nov		31	Commodities futures market dialogue NAPM annual business forecast: inven-		1	16	CIT to build lab	Dec	22	21
Powder Metallurgy—Metal powder sale up: 5th international powder metallurg	V			tories fall in line	Dec	8	63	Contact lenses: Soft-lens producers eye new materials	July	28	44
Conference	. July	14	37	Pyrolysis				NIH proposed strict guidelines for re-			
Stever N Aug 4-10 After setting up new White Hous	Sep	t 1	5	Seattle contracts for plant to produce ammonia from solid waste R	Sept	29	21	search near clarification, says PMA NIH guidelines may be applied to in-	July	28	26
Science office, he will spend mor	e			UC finds pyrolysis fuel oil causes cancer in mice		25	44	dustry	Aug	11	10
time on fishing	. Sep	t 22	40	_				with NIH rules for DNA research . N	Oct	20	10
Prices Chemical pricing worries Wall Street	et			R				Environmentalists urge tighter controls for DNA research N	Nov	17	14
(charts)	Auc		11 16	Radiation				for DNA research N DNA regulation is issue	Dec	22	21
CPI prices rise (table) CW Stock Prices I: Chemicals/lertilizers coatings (tables) July 14-24, July 28-	/	,,,		Hanford blast hits 10	Sept	8	24	ers, derived from citrus peels, look	Nov	24	60
18, Aug 11-17, Aug 25-26, Sept 8-31 Sept 22-18, Oct 6-21, Oct 20-21, No	,			Blast becomes campaign issue N Sept 15-9	Nov	3	17	promising		24	68
Sept 22-18, Oct 6-21, Oct 20-21, No 3-21, Nov 17-24, Dec 1-19	. Dec	15	20	Synchrotron radiation: Tool for studying catalysts, semiconductors, enzymes.	July	7	44	the subject of a research program at Battelle	Aug	11	37

March Column Co	FDD4								in the second se			
Proceedings Company	ERDA negotiations with four companies for in situ shale oil recovery tech-				Rodenticides EPA may han structuring for rodenticide				FDA expected to propose ban on			
Part	nology research N J	luly	7	32	use				metic use N	Sept	8	18
Segret on Sub-Age in	ERDA's series of manned balloon expe- ditions called Project DaVinci, de-				Epibloc, new poison for rats	Dec	15	47		Oct	20	10
Procession processor processor of the production of the processor of the	signed to study the behavior of air				against rats that have a resistance to				Mobil Oil reports that seven cases of	201	20	10
Poster Commence Poster	pollution over time and distance A	Aug	4	16		India	28	37	cancer (including two deaths) have			
Recovered Floor International Control Section Control Cont	paper S	Sept	15	43	Rosin-Global look: Third International				ployees at Paulsboro, N.J., refinery			
The content of the	Fabric flammability standards will re-	201	20	25		Oct	27	34	who had been exposed to PCBs	Sept	1	13
Separate Calculation	Fluidized-bed combustion: cheaper way	JCI	20	35	facial prosthetic clinic	Dec	15	42	investigating possibly hazardous			
Company Comp	to burn coal efficiently, with less pollu-								products	July	28	17
## Additional content placed and placed and placed and placed and process in large data. ## Additional Placed and placed		Sept	22	24	Rubber				about 1,800 U.S. consumers over the			
Content process more methods and content of the process and Condition of Ducks programmer to the process and Condition of Ducks and Con	FDA investigation of animal tests for				Additives: Rubber and plastic additives				age of 18 findings	Nov	24	25
Appeal	Genetic message turns on chemical	Vov	24	25		Nov	24	84	Contact adhesives: CPSC wants limits			
Machington Line, medical school and superment on the III- Washington Line, medical school and superment of the III- Washington Line, medical school and superment of the III- Washington Line, medical school and superment of the III- Washington Line, with	process in living cells N	Vov	3	23	Akron meeting of Dutch government of-					Aug	11	10
	ICI protein process mixes methanol and	Nov	10	63	ends without an agreement on the fu-							
Section Color Processing Color	Monsanto plans research lab near the	404	10	00	ture of Vredestein				Drugs see Drugs			
Neg of the arms to get sured businesses	Washington Univ. medical school in	Aug	4	40	Closer on Duich accord	July	28	22	Explosions see Explosions			
Interpretation of the second color of the seco	NSF office aims to get small businesses		*	40	strikeN	July	21	20		Oct	20	35
Lis. Finder Office aboy (fable) U.S. Priest Office aboy (fable)	into government research N	Dec	15	10	Chemical Week 300—report (tables)	Nov	24	41	Fires see Fires			
A patient search for technology prendiction. Prescription Companies of the projection of the prescription of the projection of the search of the projection of the projection of the search of the search of the search of the search of the projection of the search of the projection of the	ozone data	Nov	17	43	ICI and Rhone-Poulenc plan to merge	1404	24	41				
Pesiciose Commerce Degat. PM aces Period State Coulty—Grant Plant State Coulty—Grant State State Plant Plant State Coulty—Grant State St	A patent search for technology trends—				their rubber chemicals operations N	July	14	25	GAO charges EPA with failure to protect			
President Part Pa	U.S. Patent Office study (table)	July	28	30					its own employees N Great Britain: Farm workers seek more	Oct	6	36
Part	new ways to boost pesticides R&D . N :	Sept	15	10	tor	Aug	11	27	pesticides control N	Oct	13	49
## Presentance in suggest changes in a proper suggest chan		Aug	11	31					Great Britain formulates new rules for	Sant	Q	10
State Stat	R&D spending: Many R&D budget hikes	aug	* 1	31	contract	Oct	13	27	Great Britain investigates TDI exposure			
Passearchers Judges changes Dec. 15 39 Passearchers Judges Dec. 15 Passearchers Judges Dec. 15 39 Passearchers Judges Dec. 15	stayed well ahead of price hikes—CW	Inde	1.4	27	Strikes see Labor				incidents N	Sept	29	34
About wise contract for the production of sis Smith carbon contract for the production of sis Smith carbon carbon contract for the production of sis Smith carbon carbon contract for the product	R&D spending plans: Battelle forecasts	July							Hazardous materials			
Selective Great	23% hike N	Dec	15	39					Kepone inquiry July 7-21, July 21-26,			
Selective Grant	government rules N	Oct	20	10	of its Similac baby formula				Sept 8-23, Sept 22-14, Oct 6-18,			
Seience al-Neuro the President as Secure of Association that President and Sec	Sleep-inducing agents: Researchers				Antipollution outlays slated N	Dec	1	25	OCT 13-23, OCT 20-20, IN NOV 10-20,			
Science advisor to the President N Aug 4 10 10 10 10 10 10 10	Stever, H. Guyford to be confirmed as	Dec	22	46	this week about supplying technology				Nov 17-19, N Nov 17-27, (Correction N Nov 24-62)	Nov	24	26
Presidential Scene Carlosis Secretary of the Presidential Scene Carlosis Secretary of the Control of the William Secretary of	science advisor to the President N	Aug	4	10	on processed meats	Dec	15	15	Lead-in-paint see Paint			
Persiderial Science Advisor Stever: After setting up new White House is more flithing. See 22 40	House—Viewpoint	Sent	1	5		Sept	15	21				
Sept. 1977 Super-conducting devices called Josephson circuits speed up concluding devices called Josephson circuits speed up concluded and provided the provided and provided the provided and provided the provided and provided	Presidential Science Advisor Stever:	оор.			Brezhnev attacks chemical industry for		2	27	plannedN	Nov	24	20
Sept. 1977 Super-conducting devices called Josephson circuits speed up concluding devices called Josephson circuits speed up concluded and provided the provided and provided the provided and provided the provided and provided	After setting up new White House science office he will spend more				Chemical trade show set for Moscow in	IVOV	3	21				
million drug research explansion. N Aug 25 17 Super-conducting devices called usespheson circuits speed up combet of the control of the contr	time on fishing	Sept	22	40	Sept. 1977 N	July	14	25	meric acrylamide N	Nov	10	61
Superconducting devices called Josephson Cricius speed up on Check Superson Control and Superson Cricius Speed up on Check Superson Control of Superson Control for Studying catalysts, semiconductors, enzymes July 7 44 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		Aug	25	17	construction, weather problems	July	21	16	NIOSH limit on epichlorohydrin	Oct	13	25
puters pouters production radiation: Tool for studying callylys, semiconduction, eazymes start with tooler instead of the more expensive p-sylene now used in most of the content of the c	Superconducting devices called				Hungarian-Soviet chemical trade grow-	Doo	15	21	NIOSH seeks lead data from GM's			
Synchrotron radiation. Look of studying Yelfa collect recovering control synchrotron against the control of the studying of the control of t		Dec	1	44	Iran, USSR team on alumina unit N	Dec			Delco-Remy battery div	Dec	8	25
Charté Rables) — Oct 22 17 Chemicals with ease start with tolure instead of the more expersive p-sylene now used in most of the proper of the control of the proper of the proper of the control of the proper of the control of the proper of t	Synchrotron radiation: Tool for studying		-		'77 Worldwide outlook: growth will hinge				Velsicol Chemical	Dec	8	25
start with follurene instead of the more expensive p-yelven now used in most undustrial processes. Purplement of the processes of the processe	TPA routes: Two experimental syntheses	July	1	44	(charts & tables)	Dec	22	17	To revise exposure levels for 10 chemicals	Aug	11	10
Inclusinal processes Oct 13 67 Electiany oil recovering GhD and Long Beach, Calit; will split the cost of project for recovering oil from deposition of the control of the cont	start with toluene instead of the more				Oil sales to U.S.: Negotiations may start	July	7	31	Toxic chemicals control in smelters			
Ferfining policy recovering oil from dependency of the cost of properly for recovering oil from dependency of the cost of properly for recovering oil from dependency of the cost of properly for recovering oil from dependency of the cost of properly for recovering oil from dependency of the cost of properly for recovering oil from dependency of the cost of properly for recovering oil from dependency of the cost of properly for recovering oil from dependency of the cost of properly for recovering oil from dependency of the cost of the cost of properly for recovering oil from dependency of the cost of the cost of the cost of the cost of properly for recovering oil from dependency of the cost of	industrial processes	Oct	13	67	Oxy signs fertilizer agreement				Nuclear safety see Atomic Power: Ura-	Nov	10	61
project for recovering oil from depleted weells N Aug 11 10 Three-way catalytic converters to cut care pollutants: prospects of lighter and production programs (charf a table) N Sept 2 9 Product compensation deal will be off-care and production programs (charf a table) N Sept 2 7 Trade with U.S. order backlogs shink Date of the product compensation deal will be off-care production programs (charf a table) Nov 17 July 16 12 17 Toxicologistic rows (Substances Control Act spurs drive to expand toxicology training programs (charf a table) Nov 17 July 16 12 17 Toxicologistic rows (Substances Control Act spurs drive to expand toxicology training programs (charf a table) Nov 17 July 18 18 Trade with U.S. order backlogs shink Date or trade with U.S. order back	Tertiary oil recovery: ERDA and Long								nium			
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search Oxicologists: Toxic Substances Controlling worker exposure to chromates furth on the Mixing Isomethial Scription and Isomethia Isomethial Scription and Isomethia Isomethial Scription and Isomethia Isomethi	auto emissions standards spur re-				Rhone-Poulenc \$1,2-billion two-way				Coke-oven standards issued N		27	
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role in the Viking lander and biology lab; hutner space probes will often rew CPI outlets (diagram)	Viking I: Chemical products played a key	Nov	17	38	growing rust problems	Sept	22	21	Health Research Group petitions			
CPI outlets (diagram)	role in the Viking lander and biology				Hutnenium— Infee-way catalytic con-	0	0		the contents of all chemicals in			
Viking 1: Thanks. We needed that— Viewpoint	lab; future space probes will offer new	Διια	25	55	verters research	Sept	8	/4	workplaces	Oct	27	23
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Voluntary guidelines for silica, mercury and lead Naug 1 1 1 1 1 1 1 1 1	Viewpoint				5				Solvents: date for hearings on in-	Luba		
Resins ABS see Plastics Plastic resin production exceeds sales and use Notation in Oct. Not	Viking I spacecraft's analysis of Martian	Aug	20		Calaba				Voluntary guidelines for silica.		20	20
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ABS see Plastics Plastic resin production exceeds sales and use No .					Air bags still up in air	Aug	11	16	process reduces hazards of making			
Allied's Bation Rouge, La., plant leak spews chlorine gas and use and use resins shipments drop below production in Oct. Novo 24 32 98 Plastic resins shipments drop below production in Oct. Novo 24 32 98 Plant Rouge, La., plant leak spews chlorine gas plant leak spews chlorine gas spews chlorine gas plant leak spews chlorine gas	ABS see Plastics								percarbonate	Oct	27	42
Plastic resins shipments drop below production in Oct. N Dec 22 29 29 29 29 29 29 29 29 29 29 29 29	Plastic resin production exceeds sales			00	refinery N	July	14	17	Pesticides see Insecticides—Pesticides Pipeline safety see Piping			
Plastic resins shipments drop below production in Oct N Dec. 22 29 Polyester resin prices N Dec. 22 29 Polyeste	Plastics markets rehound (chart)				spews chlorine gas	Dec	22	20	Pollution control see Air Pollution; En-			
Polyester resin prices N Sept 2 2 19 Shell Chemicals (UK) slates epoxy resin expansion	Plastic resins shipments drop below				Asbestos in dust sampled at Cliffside							
Shell Chemicals (UK) slates epoxy resin expansion	production in Oct N				Park, N.J. condominium revealed by environmental officials	Sent	29	21	Red Dye see Dyes & Dyeing			
Thermoplastics use falls behind output—SPIreport N Sept 29 40 Urea-formaldehyde resin prices N Sept 29 40 Pesorcinol—TCP industries' Puerto Rican venture to produce resorcinol R Oct 13 26 Reverse Osmosis—UC's pilot unit at Puerto Rican plant to turn organic chemical effluent into feedwater for high-pressure boilers July 14 31 Dieta left will study exposure to eight chemicals N Sept 29 33 Urea-formaldehyde resin prices N Sept 29 40 Pesorcinol—TCP industries' Puerto Rican plant to turn organic chemical effluent into feedwater for high-pressure boilers Duly 14 31 Dieta left will study exposure to eight chemicals N Sept 29 33 Urea-formaldehyde resin prices N Sept 29 35 Urea-formaldehyde resin prices N Sept 29 18 Pattelle will study exposure to eight Chemicals N Sept 29 36 Urea for investing industry shells out for only only of the coast of the coast N Sept 29 37 Urea formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 14 31 Dieta formal feedwater for high-pressure boilers Duly 21 Dieta formal feedwater for high-pressure boilers Duly 22 29 33 Dieta formal feedwater for high-pressure boilers Duly 22 29 33 Dieta formal feedwater for high-pressure boilers Duly 22 29 33 Dieta formal feedwater for high-pressure boilers Duly 22 29 33 Dieta formal feedwater for high-pressure boilers Duly 22 29 33 Dieta formal feedwater for high-pressure boilers Duly 22 29 33 Dieta formal feedwater for high-pressure Duly 22 29 33 Dieta formal feedwater for high-pressure boilers Duly 22 29 33 Dieta formal feedwater	Shell Chemicals (UK) slates epoxy resin	1111			California's coastline protection bill				Smoke detectors and fire extinguishers:	Dac	22	30
put—SPIreport N Sept 29 40 Urea-formaldehyde resin prices N Sept 29 40 Hesorcinol—TCP industries' Puerlo Rican wenture to produce resorcinol R Reverse Osmosis—UC's pilot unit at Puerto Rican plant to turn organic chemical effluent into feedwater for high-pressure boilers Aug	expansion falls behind out	Sept	29	27	would severely restrict the expansion				Sodium azide poses threat of exposion		22	30
Urea-formaldehyde resin prices . N Sept 29 40 miles of the coast . Sept Resorcinol—TCP industries "Puerlo Rican penture to produce resorcinol R Oct 13 26 Battelle will study cancer potential of chemicals of the coast N Aug 18 23 Toxicology testing: Industry shells out for pressure boilers N Sept 29 18 Battelle will study exposure to eight chemicals N Sept 29 33 Sattelle will study exposure to eight chemicals N Sept 29 33 Sattelle will study exposure to eight chemicals N Sept 29 33 Sattelle will study exposure to eight chemicals N Sept 29 33 Sept 30 Sep	put—SPI reportN	Sept			petrochemical facilities within five				in hospital plumbing systems N	Sept	1	10
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Reverse Ośmosis – UC's pilot unit at Puerto Rican plant to turn organic chemicals — N Aug 18 23 Toxicology testing: Industry shells out for self-surveillance — July 14 31 Battelle will study exposure to eight chemicals — N Sept 29 33 University shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry shells out for self-surveillance — July 21 13 Toxicology testing: Industry s	venture to produce resorcinol R	Oct	13	26		f			have on the human body	Sept	29	18
chemical effluent into feedwater for high- pressure boilers	Reverse Osmosis-UC's pilot unit at				chemicals	Aug	18	23	Toxicology testing: Industry shells out for			
Prices sure boilers July 14 31 DiethanoInitrosamine: Warning on oils Oct 20 20 Ifire-resistant hydraulic fluid Dec 15 16 Rhodesia Rhodesian outlook Oct 13 50 Southern Africa CPI investors are wary, but bullish about long-term prospects Rhodium-Three-way, catalytic converters research Sept 8 74 Sept 8 74 Report son incidence of cancer at eight N.J. plants from '56 to '74 Aug 11 13 followed a straight line to the top in re-	chemical effluent into feedwater for high-				chemicals	Sept	29	33	self-surveillance	July	21	13
Rhodesia Rhodesian outlook Rhodesian outlook Cot 13 50 Southern Africa CPI investors are wary, but bullish about long-term prospects Rhodium—"Three-way' catalytic converters research Soet 8 74 Sept 8 74 Reports on incidence of cancer at eight N.J. plants from "56 to "74 Aug 11 13 10 lowed a straight line to the top in re-	pressure boilers	July	14	31	DiethanoInitrosamine: Warning or	1					15	16
Rhodesian outlook Oct 13 50 Southern Africa CPI investors are wary, but bullish about long-term prospects On Verters research Soad Paving—Sulfur seeks new specialty Sept 8 74					Dow tests show HCBD is carcino	-	20	20				
Southern Africa CPI investors are way, but bullish about long-term prospects Oct 13 50 cellulose plant: Cancer data listed July 28 26 Rockwell wins ERDA contract for molten-salt coal gasification N Aug 18 10 verters research Sept 8 74 Report amplified Aug 11 13 followed a straight line to the top in re-	Rhodesia Phodesian outlook	Ont	12	60	genic, but there may be threshold	1		64	Sall			
but bullish about long-term prospects Oct 13 50 cellulose plants Cancer data listed July 28 26 Rockwell wins ERDA contract for Report amplified	Southern Africa CPI investors are wary,	OCI			Du Pont's Carney's Point, N.J., nitro	-			Prices	Oct	20	25
verters research	but bullish about long-term prospects	Oct	13	50	cellulose plant: Cancer data listed .	July			Rockwell wins ERDA contract for	r	18	10
Road Paving—Sulfur seeks new specialty eight N.J. plants from '56 to '74". Aug 11 13 followed a straight line to the top in re-	verters research	Sept	8	74	Reports on incidence of cancer a	ıt.			Sarett, Lewis HMerck's senior v-p: He	9	10	10
Section 19 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Road Paving—Sulfur seeks new specialty		11	20	eight N.J. plants from '56 to '74 New data reported	Aug			followed a straight line to the top in re- search	July	21	44
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Sarni, Vincent A.—PPG's Chemical Div. v-p and general manager: He set up a management learn that can work with-		00	50	Soc. de Chimie Industrielle—Franco- American Congress: How to skin a cat— Viewpoint	Nov	3	5	Viking I: Chemical products played a key role in the Viking lander and biology lab; future space probes will offer new		0.5	
out him	Dec	22	52	Society of the Plastics Industry					Aug	25	55
Saudi Arabia	Oct	27	44	Plastics markets rebound (chart)	Nov	24 24	32 21	Viewpoint	July	28 25	5
Desalination program study N Fast-breeder research program N Japanese-Saudi petrochemical complex	Oct	27	44	VCM standards: SPI asks to side with EPA in court challenge N	Nov	15	40	Viking I spacecraft's analysis of Martian	Aug		22
may not be built	Sept	15	21	Soda Ash				Spain			
toward petrochemical complex N	Sept Sept	8	25 49	Alkali battle: Soda ash capacity climbs as "natural" expansions top "syn-				Chemical trade balance not likely till '85 N	Dec	8	42
	oopi		40	thetic" shutdowns (chart)	Nov	3	14	Drug manufacturing incentives to be of-			
Scrubbers Anaconda's Aluminum Div. will use				Texasgulf's project near Green River, Wyo., to make 1 million tons/year of				fered Ethylene plant at Tarragona due	Sept	22	23
Japanese pollution control technology	Nov	3	13	soda ash from trona ore	Oct	13	26	onstream soon	Nov	24	62
IFP stack-gas system is ready for				Sodium				near Barcelona N	Sept	29	34
utilities N Sealants—Adhesives and Sealant Coun-	Oct	27	44	Prices	Aug	4	19	Petrochemical complex cuts imports, raises exports N	Oct	6	31
cil's 7th fall seminar on raw materials Selling—Salesmen: Kennedy to introduce	Oct	27	37	molten-salt coal gasification N Sodium Acetates—Prices N	Aug	18 15	10 33	Petroleos del Mediterraneao seeking ap-			
legislation amending Food, Drug and				Sodium Aluminosilicates—Zeolites may be	oopi	13	55	Polyvinyl alcohol: McKee to build a	Dec	8	43
Cosmetic Act that would require "de- tailmen" to attend certified training pro-				newest substitute for phosphate in de- tergents N Dec 1-9 N	Dec	8	13	plant	Oct	20	31
grams	Dec	22	20	Sodium Ascorbate—Vitamin C is of definite value in treating patients who have ad-				Terephthalic acid and dimethyl terephthalate plant near Algeciras R			
Tool for studying catalysts, semiconduc-		1		vanced cancer says Pauling	Dec	15	17	Standardization. OSHA see Labor	OCI	13	62
tors, enzymes	July	7	44	Sodium azide poses threat of explosion in hospital plumbing systems N	Sept	1	10	Standardization. Pollution standards see Air Pollution; Environment, Water			
rifugals double solids-separation ca- pacity N	Sant	15	47	Sodium Bicarbonate				Pollution			
	Sehr	13	7,	Aqueous carbonate process: Sulfur-				Standardization. Safety see Safety Stanford Research Institute—Health			
Shale Oil Canada: tar-sand development slows				from-stack-gas system will get \$22- million test N Deodorants and antiperspirants: new in-	July	14	29	hazards in paper industry to be studied	Oct	20	10
down	Sept	15	9	Deodorants and antiperspirants: new ingredients compete for use	Dec	8	29	Stanford University—Synchrotron radia-		20	
for in situ shale oil recovery tech-		~	00	Formulations employed in home fire ext-				tion: Tool for studying catalysts, semi- conductors, enzymes	July	7	44
nology research	July	7	32	inguishers Stauffer plant at Chicago Heights, III R	Dec	22 8	30 25	Starch—Starch-to-plastic route commer-	Oct	13	71
prototype program for a year	Sept	1	12	Sodium Bisulfite—Prices N	Nov	24	31	cialized in Japan			
Nost Comman shale on complex studied	Aug	11	25	Sodium Chiorate				Trade Commission and the Commerce Dept. plan to establish comparable			
Shipping				ERCO Industries and Kloeckner-Penta- plast plan U.S. plant N Olin's plant at Niagara Falls, N.Y R	Nov	17	13	figures for exports, imports, domestic production	Sept.	1	11
Allied's barge upset in Chesapeake Bay: 1,000-ton oleum spill dissipated				Olin's plant at Niagara Falls, N.Y F Pennwalt plans plant at Tacoma, Wash.	Nov	24	26	Steel			
safely	Sept	1	14	complex	Nov	10	19	Automotive market (charts)	Aug	18	11
propelled chemical transports N	July	7	18	Charleston, Tenn., complex F	Aug	18	15	Chemical Week 300—report (tables) Aug 25-36	Nov	24	40
Drought hurts barging in the Mississippi River System	Sept	8	24	Sodium Perborate Monohydrate—Prices		3	32	Nondetachable steel tab bids for container market N	Aug	11	37
European business level drops: drought begins to affect chemical process				Sodium Silica—Philadelphia Quart begins production of sodium silica plas				Price hikes draw criticism	Dec	8	17
companies' operations	July	14	22	tics filler at Augusta, Ga., plant	Oct	13	26 31	making?	Sept	29	34
Hazardous materials Armak designs labels for hazardous				Sodium Stearate—Gelling agent to	1			science advisor to the President N	Aug	4	10
chemicals	Aug	25	44	deodorant sticks	S	8	31	Science is back in style at White House—Viewpoint	Sept	1	5
stances may have to be specially la- beled	Sept	15	10	by-product sulfate	V Oct	27	17	House—Viewpoint			
Hazardous Materials Transportation Act enforcement will get tighter N		29	12	begins a comeback (chart)	July	14	19	science office, he will spend more	3	22	40
Polyester resin controversy surrounds		2.5	12	Solar Power				time on fishing	Sept	22	40
a DOT hazardous materials regula-	July	14	21	ACS meeting: photochemical method of capturing solar power	Sep	t 8	58	emergency crude storage plan at AIChE meeting	Dec	8	55
Transportation of more hazardous ma- terials may be regulated N		22	14	ERDA's solar plant site choices na	-			Congress gets plan for stockpiling crude supply	3	22	13
LNG tank towed on a specially constructed barge from Charleston,	1			rowed to three	-	17	13	Storage—LNG tank towed on a specially constructed barge from Charleston, S.C.	1		
S.C. to Quincy, Mass	Dec	15	18	ing solar energy to generate electricit for commercial use	. Oct	6	35	to Quincy, Mass	Dec	15	18
leum terminal lease sought by Sohio)			Houston Chemical awarded contract for development of solar energy system	or			Straw—Animal feed containing up to 12.5% protein developed	1 Oct	20	39
Transportation	1	20	9	"Thin-film" solar cells developed	R Dec	15	17	Strontium—Kaiser will shut down celestite mining and strontium operations in Nova	à		
quality	Oct	27	17	University of Delaware		20	39	Scotia	N Sept		33
Winton				Solventa				Strychnine—EPA may ban strychnine fo	r		
How transportation shipping costs compare (table)	Nov	10	50	Chlorinated solvent prices N Nov 17-4	N Dec	8	28	rodenticide use	Dec	8	27
contain LNG in ships	V Oct	13	71	Cosorb technology marketed by Te	1-			Styrene California: Building of Dow styrene un	it		
Washington state continues to bar the big tankers from entering the harbor	Oct	13	23	neco is ready for recovering ethyler following commercial success wi	th			in jeopardy over environments	al	21	15
Washington superport plans to be re considered	- Aug	18	9	carbon monoxide OSHA sets date for hearings on i	. Dec	c 15	31	'Final decision' will be made ne	xt		
Shipping see also Barges; Railroads	i Aug	10	3	dustrial solvents standards UC reactivates a Propasol solvents pla	N Jul	y 28	28	Styrene plant gets second 'no' ARB in San Francisco to reconside	N July . Aug		27 14
Tankers; Trucks Shrimp—Dow's brine shrimp experiment	t:			in Charleston, W. Va	N Sei	pt 8	55	ARB in San Francisco to reconside denial of construction permit	er . Sep	t 1	16
Pilot system removes bacterial solids may cut operating costs	. Aug	11	40	Sorbitol will be tested by the NIDR clinical trial with school children, who was	rill			denial of construction permit California plant may set U.S. enforce	. Oct		50
Silica—OSHA sets voluntary guidelines . I	N Aug	4		chew different kinds of gum	. Au	g 18	31	ment pattern Dow appeals for plant	. Nov		
Silicon				South Africa				CBE, Brazil's only styrene monome producer	. Sep	t 15	24
GE gets grant to test silicon fluids as re placements for PCBs	Nov	10	20	African Explosives' process to ma ethylene and gasoline from co	al			Cos-Mar plant addition ships fir styrene	N Nov	, 3	23
Microprocessors: They make analytical instruments faster and more accurate	al			shows promise	nit	t 13	71	Dow Chemical study: Styrene look good so far in toxicology tests	KS	7	32
	riug	, ,		comes onstream	N De	c 15	21	Monomer prices	N Dec		
Fluid prices	N Oct	6	24	operation: Cost picture improves	N Jul	y 7	32	Styrene plants cut energy costs: Stea savings cause makers to rethin	nk		
Prices N July 7-27, N July 28-32 UC silicones plant in Sistersville, W. Va	N Dec	8	28	South-West Africa				process designs Styrene-acrylonitrile—Resin prices	N July		34
to get silanes unit N Sept 22-9 Urethane, silicone resins form prothese	N Oct	13	17	Nujoma, Sam would welcome foreign vestors, limit profits	in- Oc	it 13	52	Succinylated Monoglycerides—Eastma Kodak suing Southern Shortenings	an		
to "rebuild" facial parts after surgery	. Dec	15	42	Southern Africa CPI investors are wa but bullish about long-term prospec	ry,			patent infringement		y 21	9
Singapore—Royal Dutch/Shell's naphth for Singapore plant in return for ethylene	е					. 16	. 50	Sulfur			
Sloan-Kettering Institute for Cancer Re	g			Space Technology Military satellites will provide ozone de	ata			Desulfurization see Desulfurization EPA's underground injection limits ma	ay		
search—Maxillofacial prosthetic clinic	. Dec	15	42		N NO	ov 17	43	doom Frasch mining	N Dec	c 22	40

Forecasts of world shortages by '85 are probably premature, but long-term				Phillips Petroleum indicted on charges stemming from secret slush fund N	Sept	8	18	Textiles American Enka's Lowland, Tenn., plant			
output-demand trends will keep prices rising	Aug	18	19	Plant sites 1977—report. John M. Winton				on strike	Oct	27	25
-letter	Oct	6	5	How states compare on federal taxa-				in textile processing N	Aug	4	40
warers of Louisiana in hopes of				tion, spending and payrolls, and projected future per capita personal					Sept Aug	15 25	40
developing a new Frasch sulfur	Aug	18	9	income and economic growth	Mou	10	26	PVC markets (tables)		15	34
property	Aug	10	9	How selected state taxes compare	Nov	10	36	Stevens Co. may be ordered to call off its long-standing battle to resist unioniza-			
of specialty uses for sulfur that in- cludes insulating foam, coatings and				(table)	Nov	10	52	tion of its mills	July	14	23
car batteries	Aug	11	20	government's policy on energy tax	Oct	6	30	study	Nov	10	78
Shipments: Sluggish shipments lead to rising inventories	Oct	6	24	Tax reform bill CPI's 1977 tax burden; bigger but				Textiles see also Fibers			
ulfuric Acid-Allied's barge upset in					Sept	29	15	Thailand		0.1	70
Chesapeake Bay: 1,000-ton oleum spill dissipated safely	Sept	1	14	Technology				Fertilizer project to get IMC technology N Japanese synthetic fiber makers reduce	NOV	24	76
ulphur Institute—Sulfur-based highway markings	Aug	11	20	AIChE meeting highlights search for substitute materials to head off grow-				their stake in Asian joint ventures Thiochemicals—Search for new uses for	Aug	18	27
	Aug	25	5	ing deficit in nation's natural resources				sulfur	Aug	11	21
urfactants				(chart)	Sept	8	53	Thiourea—Prices	Nov	17	44
Prices	Dec	8	28	startup of technology-based firms . N Germany: Study finds East German	Sept	8	18	logue stalled	Aug	25	21
surfactants	Dec	22	31	chemical industry is about 10 yrs. be-				Thorium—ERDA sponsors survey to de- termine the effects that thorium may			
Witco's Perth Amboy, N.J. plant reactor explodes	Sept	15	16	hind its West German counterpart in technology N	Dec	22	33	have on the human body	Sept	29	18
	оорг	.0		Japan's technology sales at strong pace				ing abroadN	Oct	6	13
weden Businessmen worry about new govern-				Let's keep science from politics—	Sept	29	25	Tires			
ment's policy on energy tax	Oct	6	30	Viewpoint	Nov	10	- 5	Chemical Week 300—report (tables)			
Elections: Will business rules change under new government? N	Sept	29	25	A patent search for technology trends— U.S. Patent Office study (table)	July	28	30	Aug 25-37 Despite 4-month-old rubber strike, auto	Nov	24	4
Government will not take over drug com-			27	Science superagency: Plan to combine				makers have ample tire supply	Aug	18	13
panies	Nov	17		science agencies falls to pick up steam	Dec	22	14	Rubber strike ends, tire production ex- pected to be back to normal levels			
spree N	Sept	29 25	27 18	Tennessee Valley Authority					Sept	15	14
Nuclear energy development plans				Fertilizer conference	Aug	4	27	discussions regarding titanium metal			
challenged in national elections No atom ban	Sept	15 27	23 40	Pan granulation process commer-	Sept	22	24	pricing with competitors	Dec	22	15
				cialized by Enren Corp. to make am-	E. de	00	00	Titanium Dioxide			
Abbott requests cyclamate hearing from				monium nitrate N Terephthalate—Hercofina: new worldwide	July	28	28	Du Pont TiO ₂ : to allocate another \$20 million (to \$40 million) for preliminary			
FDA	Oct	13 29	26 21	venture by Hercules and Petrofina N	Aug	11 25	9 25	work on its TiO2 plant in De Lisle,			
Aspartame: FDA to convene 'Science	Sept	29	21	Joint venture approved R Joint venture starts up N	Aug Sept	8	17	Miss. N Project underway N	July Sept	14	3
court' to review research data from Searle	Dec	1	17	Terephthalic Acid				Plant under attack N		8	1
Dihydrochalcones: Grapefruit-based	Dec	,		Korea to get domestic source of				NL Industries closes plant in Sayreville, N.J. because of strike	Sept	22	1
sweeteners are ripe for the market- place	Nov	24	68	terephthalic N Phillips, Rhone-Poulenc develop new	Nov	24	62	N.J. because of strike N NL Industries plans another Ti0₂ plant in		40	
Finnish sweetener, xylitol, has major				TPA process N Oct 6-36	Oct	13	67	the U.S N NL Industries' pigment plant at	Aug	18	
plus: it reduces tooth decay	July	14	37	Research: Two experimental syntheses start with toluene instead of the more				Leverkursen, W. Germany R Aug 11- 16N		18	
conversion of glucose into fructose . N	Nov	24	76	expensive p-xylene now used in most	Ont	12	67	Waste disposal: European producers	Aug	10	
Staley, A.E. Manufacturing's high-fruc- tose corn syrup will be available from				industrial processes	Oct	13	67 26	take sides in battle over disposal methods at EEC environment meeting			
Decatur, III. plant in Dec.; HFCS plant				Taiwan: joint purified terephthalic acid		28	42	(table)	Dec	8	6
in Lafayette, Ind. expected to be com- pleted next summer	Sept	29	21	Terminals—Long Beach, Calif. deep-water		20	46	Common Market fails to agree on dis- charge controls N		22	4
Xylitol will be tested by NIDR in clinical trial with school children, who will				petroleum terminal lease sought by Sohio Transportation	Oct	20	9	Tohno, Toshihiko-Sumitomo Chemical			
chew different kinds of gum	Aug	18	31	Marine terminal project will affect air	0-4	27	17	America's president: He's helping Japanese chemical giant to get off the			
Correction—letter	Oct	6	5	quality	OCI	61	11	ground in U.S. Toiletries—Chemical Week 300—report	July	28	
Synthesis Boranes may find a role in drug syn-				Testing Aquatic toxicology: an infant science tha				(tables) Aug 25-36	NOV	24	
thesis	Dec	15	33	will grow with Toxic Substances Act .	Nov	3	25	Tokyo Medical & Dental University's Tool & Material Research Lab.—Plastic coating			
First synthesis of working gene report at ACS meeting	Sept	8	58	Diagnostic chemicals are becoming big business for many CPI companies	July	21	31	combats tooth decay; product called	1	11	
ACS meeting	0-1			Fabric flammability standards will re-				EnamiteN	Aug	11	
new TPA process N Oct 6-36 TPA routes: Two experimental syntheses	3	13	67	quire more flameproofing chemicals. FDA investigation of animal tests fo	Oct	20	35	Toluene			
start with toluene instead of the more				drugs may lead to tighter regulations .	Nov	24	25	Japan: toluene may be the raw material for polyester fibers N	Aug	4	,
expensive para-xylene now used ir most industrial processes		13	67	FDA's call for additional toxicity studies on food, drug and cosmetic colorants				for polyester fibers N Output up: first-half production	Sept	24	
Synthetic Organic Chemical Manufac				will cost industry an estimated \$10-13	2	3	17	Portugal beefs up BTX N TPA routes: Two experimental syntheses		24	
turers Assn.				million Olympic athletes will have to pass liquid	HOV			starts with toluene instead of the more expensive p-xylene now used in most			
Cancer: SOCMA wants EPA's guidelines on suspected carcinogens changed N	Aug	4	40	chromatography test	VIUL	21	36	industrial processes	Oct	13	
Ketone standards: cost impact o	f			on tests of commodity chemicals				Tolylene Dilsocyanate			
OSHA's proposed standards debated Product-liability surveys		22	16	planning \$10-million research center Toxicology testing: Industry shells out to	Nov	17	36	Dow's plant in Freeport, Tex F	Nov 9	17	
,,				self-surveillance	July	21	13	Great Britain investigates TDI exposure incidents	Sent	29	
T				on the "Approaching Toxics Era"	Nov	24	72	Prices	Sept	8	
								Toothpaste			
Taiwan				2,3,7,8-Tetrachiorodibenzo-para-dioxin (TCDD)				First toothpaste containing xylitol called			
Japanese synthetic fiber makers reduce their stake in Asian joint ventures	e Aug	18	27	Agent Chemical reconsidering plans to dispose of TCDD in California landfil	0			Ksylitoli Vademecum fluor Senate bill would require manufacturers	July	14	
Polyester fiber plant at Taipei	R Dec	8	43	because of public controversy	Sept	15	13	to prove safety, efficacy of products. N		11	
Terephthalic acid plant	V July	28	42	Air Force ships nine cannisters of Agent Orange to Johnson Island in	ıf			Toxicology testing see Testing			
Tankers				the Pacific	R Dec	15	17	Training			
	d I-			Agent Chemical still negotiating for disposal of Gulfport, Miss. stock	r			Kennedy to introduce legislation amend ing Food, Drug and Cosmetic Act that	at		
Gazocean expert foresees refrigerate	0			pile	R Dec	15	17	would require "detailmen" to attend	d	-	
tankers as 'pipelines' for future per rochemicals linking ethylene units t				Italy: explosion at Icmesa' trichlorophenol plant causes evacua	S			certified training programs	. Dec	22	
tankers as 'pipelines' for future per rochemicals linking ethylene units t downstream plants around worl	d _	Д	44		Acres		40	simulator, called Traspo, to trail	n		
tankers as 'pipelines' for future per rochemicals linking ethylene units to downstream plants around worl (tables) Washington State continues to bar bi	d Dec			tion of nearby residents		4	13	annulator, caned reaspo, to train		4.00	
tankers as 'pipelines' for future per rochemicals linking ethylene units t downstream plants around work (tables)	d Dec			tion of nearby residents	n	4	13	operators at chemical plants I Toxicologists: Toxic Substances Contro	N Nov	10	
tankers as 'pipelines' for future per rochemicals linking ethylene units townstream plants around worl (tables)	d Dec g Oct			tion of nearby residents Authorities seek to evaluate long-terr health effects of Italian CPI ac cident	n - Aug	11	13	operators at chemical plants	ol Iy		
tankers as 'pipelines' for future per rochemicals linking ethylene units downstream plants around worl (tables)	Dec g Oct	13	23	tion of nearby residents Authorities seek to evaluate long-terr health effects of Italian CPI ac cident Seveso may be razed as result of toxi chemical contamination	. Aug		13	operators at chemical plants I Toxicologists: Toxic Substances Contro Act spurs drive to expand toxicolog training programs (charts & table) Transportation—Plant sites 1977—repor	ol Iy . Nov		
tankers as 'pipelines' for future pe rochemicals linking ethylene units I downstream plants around worl (tables). Washington State continues to bar bi tankers from entering the harbor Texation	d Dec g Oct	13	23	tion of nearby residents Authorities seek to evaluate long-terr health effects of Italian CPI ac cident Seveso may be razed as result of toxi	. Aug	11	13	operators at chemical plants	ol Iy . Nov rt.		

				11 1 12 -4 M-Mb-A							
Transportation see also Aeronautics; Barges; Railroads; Shipping; Trucks				University of Nottingham Hybrid plant research by E. Cocking	Aug	11	31	from directing advertising for children's vitamin to juvenile			
Triacetate—Yarn prices N Trichloroethane—Mitsubishi seeks	Oct	27	28	Researchers report new way to optimize				audiences	Sept	15	14
partners for 1,1,1-trichloroethane com-	Sept	22	32	fertilizer use	July	21	36	patients who have advanced cancer	D	15	17
plex	Зері	22	JE.	do before they retire	Dec	22	24	says Pauling	Dec	15	17
foods, cosmetic use N	Sept	8	18	Uranium				W			
Trichlorophenol				AIChE meeting: uranium from phos- phate	Dec	8	59	-			
Bayer suspends TCP production Coalite & Chemical Products suspends	Aug	18	14	plant for \$50 million	Dec	15	9	Waste Disposal Agent orange			
production of 2,4,5-TCP at Bolsover plant	Aug	18	14	Can Carter debottleneck nuclear power? Likely outcome: need for more ura-				Agent Chemical reconsidering plans to dispose of TCDD in California			
Italy: Icmesa's plant explosion causes evacuation of nearby residents		4	13	nium processing (chart & table) Canada pioneers method of recovering	Nov	17	17	landfill because of public con- troversy	Sept	15	13
Authorities seek to evaluate long-term health effects of accident	Aug	11	13	uranium from leach liquor N Enrichment: ARCO ending activities in	July	21	36	Air Force ships nine cannisters to Johnson Island in the Pacific R	Dec	15	17
Seveso may be razed as result of toxic chemical contamination	Aug	18	14	nuclear enrichment	Nov	10	19	Agent Chemical still negotiating for disposal of Gulfport, Miss. stock-			
Tri-n-Butylborane—Plastic coating com- bats tooth decay: Japanese product				go to co-participant ENI Nuclear N Enrichment: Incentive bill may get	Dec	15	9	pile	Dec	15	17
called Enamite	Aug	11	37	Congress okay N Enrichment: Japanese plant converts	July	21	9	abandoned missile silo in Idaho Belgium develops process for chemical	Nov	24	26
phoric acid complex at Gabes goes to Heurtey Industries		7	42	uranium tetrafluoride into uranium hexafluoride	Nov	24	75	waste disposal	July	28	42
Turkey				Enrichment: New countries and consor- tiums are competing for a stake in the		-		waste disposal	Nov	17	43
Fertilizers complex contract goes to F.				business overseas; U.S. role will be				Mirex pesticide see Insecticides— Pesticides			
Uhde N Phosphoric acid plant N	Oct	20	31	decided by upcoming vote on the nu- clear fuel assurance bill (table)	July	21	33	New Orleans dedicates solid-waste			
				Enrichment: Nuclear fuel assurance bill passed by House of Representatives .	Aug	11	15	recovery system, dubbed Recovery 1 N Plastic bottles see Bottles	July	28	28
U				Freeport plans uranium recovery project at complex near Uncle Sam, La N		18	9	PCBs			
				Price fixing: Documents alleging price-	rtug			GE and N.Y. State's Environmental Conservation Dept. agree on			
Ultraviolet light-absorber chemicals prices	July	7	27	fixing by a uranium cartel are sent to Justice Dept.	Sept	8	24	program to deal with PCBs in the Hudson River	Sept	15	14
Underwater Mining				Spokane Indian Reservation develop- ment of Sherwood uranium ore body				GE capacitor plants will use activated carbon to meet EPA's new PCB			
Freeport drilling in the inland coastal				gets OK	Oct	13	17	standards	Aug	4	34
waters of Louisiana in hopes of developing a new Frasch sulfur				Westinghouse counters breach of	Oct	20	9	replacements for PCBs N Georgia and Alabama residents file	Nov	10	20
property	Aug	18	9	contract claims in uranium, charges price-fixing	Oct	27	23	class action suit against GE and Monsanto as a result of the closing			
United Nations				Urea				of portions of rivers near Rome, Ga.	Sept	29	18
Energy use study	Aug	11	36	Canadian Fertilizers' ammonia-urea complex near Medicine Hat, Alta.,				Japan's EA data shows that sea water near the country has been polluted			
and Development (UNCTAD)—Haves		05	04	gets financing N	Aug	18	18	with heavy metals and PCBs	Sept	15	44
and have nots: dialogue stalled World Food Council's Hannah at FI's		25	21	Floating plants: ammonia-urea barge plants may go to Mideast N	Sept	22	9	shellfish found as high as 53 parts/ million	Sept	29	18
World Conference	Sept	29	26	Floating plants: Designers believe barge-mounted plants are the wave of				Mobil Oil reports that seven cases of cancer (including two deaths) have			
finds most of the products introduced today appear to duplicate already				Hydrolyzer stripper unit: Urea plants use	Nov	24	70	been discovered among 129 em- ployees at Paulsboro, N.J. refinery			
available, well established therapeutic	Nov	3	20	stripper towers to meet pending EPA standards, recycle ammonia	Oct	6	33	who had been exposed to PCBs Monsanto phase-out plan	Sept	13	13 24
U.S. Coast Guard—Hearings on self-pro-	July	7	18	Indonesia aims at fertilizer inde- pendence with big urea, ammonia				Monsanto undertakes in-house health study of workers; levels of PCBs in		-	
pelled chemical transports N U.S. Dept. of Agriculture—To aid EPA in evaluation of pesticide risks N	Nov	10	20	plants	Sept	8	51	fish in some areas of Pickens			
	,,,,,	10	20	in urea plant	July Sept	28 29	28 40	County, S.C. found; mothers' milk analyzed	Sept	8	28
U.S. Dept. of Commerce Incentives to aid R&D of pesticides					оері	23	40	votes toxic bill; Dingell amendment			
sought N Plan to help startup of technology-based		15	10	Urethane Rubicon Chemicals' one-component				would ban PCB production in three years		1	13
firms drafted N U.S. International Trade Comm. and the		8	18	urethane foam for filling and sealing gaps	Oct	13	77	Reserve Mining seeking to overturn a permit denial by two Minnesota envi-			
Commerce Dept. plan to establish comparable figures for exports, im-				Thiokol's Moss Point, Miss. complex to make urethane plasticizers and				ronmental agencies	Nov	10	27
ports, domestic production	Sept	1	11	oligomers	July	7	24	posal measure N	July	7	18
U.S. Dept. of the Interior				to "rebuild" facial parts after surgery .	Dec	15	42	Titanium dioxide waste disposal methods: European producers take			
Atlantic: Offshore lease sale draws \$1.14 billion	Aug	25	17	V				sides in battle at EEC environment meeting (table)	Dec	8	65
Lease sale pleases Interior N Oil shale prototype program to be put off	Sept	1	9					Common Market fails to agree on TiO ₂ discharge controlsN	Dec	22	40
for a year	Sept	1	12	Vaccines see Drugs Valves—U.S. valve manufacturers							
pesticide developed to combat tussock	(22	32	concerned about soaring insurance	Cont	22	22	Waste Treatment Activated-carbon waste treatment plant			
moth	СОР		OL.	costs for liability coverageN	Sept	22	32	at Rocky River, O. passes test but has problem	Dec	8	48
study (table)	July	28	30	Venezuela Iron ore complex contract to FMC N	Dec	22	13	American Cyanamid's tertiary waste treatment plant in Bound Brook, N.J. is			
Institute's Carl Rampacek at AIChE				National petrochemical plan may soon be signed into law	July	28	40	activated-carbon proving ground Australian fluidized-bed combustion	Sept	29	31
meeting discusses new methods of recovery	Sept	8	53	Veterinary Products—German agent, Droncit, knocks out tapeworms in all				may treat wastes from coal prepara- tion plants N		29	34
University of California				stages of development	Aug	18	31	Bayer develops new tower biology treat-			
Genetic message turns on chemical process in living cells N	l Nou	3	23	private Western companies sought N	July	7	31	ment system Bayer's treatment method makes better		10	67
Maxillofacial prosthetic clinic	Dec	15	42	Viewpoint—July 21-5, July 28-5 (letters Aug 25-5), Sept 1-5, Sept 8-5, Sept 22- 5, Oct 13-5, Nov 3-5 (letter Nov 17-5),				use of oxygen in air N Carborundum will use Aquella virus		8	64
University of Delaware—"Thin-film" solar cells developed	Oct	20	39	5, Oct 13-5, Nov 3-5 (letter Nov 17-5), Nov 10-5, Dec 1-5, Dec 15-5	Dec	22	5	concentrator in study to determine best way to disinfect waste waters N	Dec	1	39
University of Freiburg—Parsley and soy- bean cultures	Aug	11	31	Vinyi Chloride				Dow's brine shrimp experiment: Pilot system removes bacterial solids, may			
University of Georgia				EDF says EPA should lower its limits on VC emissions	Dec	1	10	cut operating costs	Aug	11	40
Electrically charged spray nozzle could cut pesticide use N		6	36	Italy's Maltoni says "we have been un- able to detect a safe dose of vinyl				recover oil from waste water N Fluidized-bed system cuts cost of waste	Oct	13	71
Two-step light-trapping cycle that em- ploys the hydrocarbon norbornadiene				chloride"	Sept	15	47	treatment	Sept	1	40
reported at ACS meeting University of Leicester—Hybrid plant re-	Sept	8	58	Vinyl Chloride see also Polyvinyl Chloride				fast-growing hydrogen peroxide market (table)		1	23
search by H.E. Street	Aug	11	31	Vitamins				Muskegon, Mich. waste-treatment 'farm'		,	23
methods of E. John Staba	Aug	11	31	Hudson Pharmaceutical agrees to FTC consent order-prohibiting company				irrigates and fertilizes land, attracts in- dustry	Sept	15	51

Oconto Falls, Wis., municipal secondary waste treatment system would treat				Water Supply				Werthamer, N. Richard, chairman of New			
plant wastes from Scott Paper R	Nov	24	26	California drought: Companies are concerned about the effects of				York State's Energy Research and Development Authority: He left the ivory			
Ozone generation system will be tested under EPA grant N	Nov	24	75	threatening water shortages	July	14	22	tower for the political arena	Sept	15	56
UC's reverse-osmosis pilot unit at Puerto				EPA study seeks link between drinking				Wistar Institute of Anatomy & Biology— New rabies vaccine	Dec	22	21
Rican plant to turn organic chemical effluent into feedwater for high-				water and colon cancer N EPA's underground injection limits	Dec	1	39	Women—Job discrimination see Labor — Discrimination			
pressure boilers	July	14	31	may doom Frasch mining N	Dec	22	40	Discrimination			
Urea plants use stripper towers to meet pending EPA standards, recycle am-				Drought in Europe: worst drought in				Wood			
monia	Oct	6	33	generations begins to affect CPI operations	July	14	22	AIChE meeting: wood as source of fuels and chemicals	Dec	8	57
Waste Utilization				Chemical companies in Wales striving				"Plastics Synthetic Wood" survey	Nov	10	78
Canada pioneers method of recovering				to effect a 30% saving in water consumption by Sept	Aug	18	28	Oregon firm, Bohemia Inc.'s process for bark chemicals has won a prize, but			
uranium from leach liquor N	July	21	36	Water cutbacks in Wales	Sept	1	14	not customers	Dec	22	39
Coal mine refuse mound in Illinois will be reclaimed	Nov	17	43	Wales water woes ease	Sept	22	16	Worcester Foundation for Experimental Biology—Abortion: vaginal implant			
Cosorb technology marketed by Ten-				Water Treatment				containing prostaglandins suspended in			
neco is ready for recovering ethylene following commercial success with				American Cyanamid's tertiary waste treatment plant in Bound Brook, N.J. is				PVP gel can induce midterm abortions .	Dec	1	17
carbon monoxide	Dec	15	31	activated-carbon proving ground	Sept	29	31				
Energy from carbon monoxide will be the subject of a research program at				Bayer develops new tower biology treat- ment system	Nov	10	67	X			
Battelle N	Aug	22	37	Bayer's waste treatment method makes							
ERDA and USDA to test use of power plant wastes for agricultural purposes				better use of oxygen in air N Carborundum will use Aquella virus	Sept	8	64	Xanthan General Mills pulls out of xanthan gum			
	Sept	8	64	concentrator in study to determine				production, slates \$2-million write-off	Sept	22	17
Fuel oil from farm and forest wastes pilot plant started up in Albany, Ore N	Dec	22	40	best way to disinfect waste waters N Desalting	Dec	1	39	Merck's Kelco division fermentation			
Hooker Chemical & Plastics fuel plant at	000		40	Dow water desalting unit to supply its				facility in Okmulgee, Okla. for xanthan and other bio-gums now 75% com-			
Niagara Falls, N.Y. to convert refuse into energy	Sent	1	18	Pittsburg plant with process water . Saudi Arabia is studying desalination	July	14	22	pleted	Sept	22	17
New Orleans dedicates solid-waste	оорі			programN	Oct	27	44	Xylene			
recovery system, dubbed Recovery 1	July	28	28	Dow's brine shrimp experiment: Pilot system removes bacterial solids, may				North Slope crude oil: Benzene and xy- lenes could give Alaska crude eco-			
Oregon firm, Bohemia Inc.'s process for	July		20	cut operating costs	Aug	11	40	nomic advantagesN	Nov	17	43
bark chemicals has won a prize, but not customers	Dec	22	39	Electrochemical process is developed to recover oil from waste water N	Oct	13	71	Output up: first-half production Xylitol will be tested by the National Institute	Sept	1	24
Peanut shells: ReZearch builds specialty				Fluidized-bed system cuts costs of waste				of Dental Research July 14-37		18	31
high-profit markets for ground peanut shells, in animal feeds and as diluents	Nov	17	46	treatment	Sept	1	40 24				
Process converts variety of wastes into		00	00	Municipal and industrial waste treatment				Z			
gas for heating	July	28	28	fast-growing hydrogen peroxide market (table)	Sept	1	23	_			
effort N	Dec	8	41	Muskegon, Mich. waste-treatment 'farm'	oop.			Zinc			
Seattle contracts for plant to produce ammonia from solid waste R	Sept	29	21	irrigates and fertilizes land, attracts in- dustry	Sept	15	51	Auto makers turn to anticorrosion coat- ings to help combat growing rust			
Senate passes hazardous waste dis-	bulo	7	18					problems	Sept	22	21
posal measure	July	,	10	Wax Bohemia Inc.'s process for bark				Outlook for metal makers: sparkling Prices N July 21-20 N	Sept	11	21 19
containing up to 12.5% protein N	Oct	20	39	chemicals has won a prize, but not		00	00	Zirconium-Pechiney and Western Zirco-			
UC's reverse-osmosis pilot unit at Puerto Rican plant to turn organic chemical				Paraffin wax for canning	Dec	22 25	39 47	nium plan joint zirconium complex N	Aug	11	9
effluent into feedwater for high-	today	14	31								
pressure boilers	July	1-4	31	Weather California drought: Companies are							
Water Pollution Du Pont's Chambers Works complex in				concerned about the effects of		1.4	22				
Deepwater, N.J.: Bonds to finance				threatening water shortages	July	14	22				
cleanup	Nov	3	13	generations begins to affect CPI		14	22				
Amendments of 1972 will not be met,				operations	July	14	22	Author Index			
unless legislation changes are made	Oct	13	62	to effect a 30% saving in water		10	20	Burke, Donald P.			
Japan's EA data shows that sea water		13	02	consumption by Sept	Aug	18	28	FBC may be a better way to burn coal	Sept	22	24
near the country has been polluted with heavy metals and PCBs		15	44	Wales water woes ease	Sept	22	16	McCurdy, Patrick P. & Silke McQueen ACHEMA '76 shifts toward new cus-			
Oil spills		10		Weisse, Peter D.—Engelhard Industries president: He sees pollution as the				tomer	July	7	37
Perth Amboy, N.J., oil spill at Chevron's terminal	Nov	10	29	catalyst for an earning rebound	Aug	11	48	McQueen, Silke & Patrick P. McCurdy ACHEMA '76 shifts toward new cus-			
Reserve Mining seeking to overturn a		10	23	—letter Welding —Hot-tap welding study begins a		25	5	tomer		7	37
permit denial by two Minnesota envi-		10	27	Battelle	Aug	11	37	Starr, Homer G. Chemical Week 300 Aug 25-33		24	35
U.S. pollution control equipment: Big				president: Success in the drug business				Winton, John M.			
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	Aug July	25 21	47 31	international companies to establish a	Dec	15	17	strike ends	Dec	8	25
Cyclamate hearing from FDA requested	Oct	13	26	other specialty chemicals R Alcon Laboratories—Aivcon Inc., joint ven-	Nov	17	22	welds in pipeline segments lying under	July	7	19
Chicago explains growth in sales and earnings Prospects for manufacturing in space	Oct Aug	20 25	20 55	ture, introduces fibrous collagen product used to halt bleeding	Sept Dec	22 15	32 33	tions of construction foul-ups could	July	28	21
Soviet contract for the production of		15	15 16	All American Engineering—Blimp project . Allengheny Ludlum Industries—Titanium Metals Corp. holds discussions regard-	Dec	15	18	AMAX—Eisenhower Mining formed to develop Palo Verde, Ariz, copper de-	Sept	1	18
Aboitiz and Co.—Coconut derivatives unit				ing titanium metal pricing with competi-	_			Metals outlook	Sept	8	22
Accelerators IncOzone generation	Dec	8 24	75	tors Allied Chemical—Barge upset in Chesapeake Bay: 1,000-ton oleum spill	Dec	22	19	Potash: Amax charged with "combina- tion and conspiracy" to restrain trade in potash from '69 to '74	July	7	22
Acidos, S.A.—Acetic acid plant at Celaya	July	21	29	U.S. Coast Guard recovers sunken	Sept	1	14	AMAX Chemical-Potash: Amax charged			
Aeropress Corp.—Brook: Hydrocarbons	Sept	22	26	barge	Nov	10	29	with "combination and conspiracy" to restrain trade in potash from '69 to '74 Smith & Brook's price-fixing suit against	July	7	22
ready	Dec	15	15	chlorine gas	Dec	22	20	potash producers in the U.S N Smith R.C. says fertilizer supply/demand	July	21	20
contamination in shellfish found as high as 53 parts/million	Sept	29	18	cate new synthetic crystals for bubble memory data storage Buffalo, N.Y., dyestuffs plant and related	Oct	6	41	in closer balance	Nov	3	32
Aetna Life & Casualty—Swine flu vaccine insurance	Aug	11	13	assets agreed in principle to be sold to				in stock swap agreement reached July 28-21	Nov	10	29
African Explosives & Chemical Indus- tries—Process to make ethylene and gasoline from coal shows promise N	Oct	13	71	Buffalo Color Corp	Nov	3	18	July 28-21 N Anticorrosion coatings for cars Rorer-Amchem approves the distribu- tion of stock of its subsidiary R	Sept	10	21
Agent Chemical-Agent orange: re-	001		* *	nearly \$5 billion	Oct	13	22	American Can-Nondetachable steel tab	Nov	10	
considering plans to dispose of TCDD in California landfill because of public con-				Coke suit: Allied denies Armoo charges	July	28	17		Aug	11	37
troversy	Sept	15	13	Dyes: Justice settles 2-vrold price-fix-				American Cyanamid Co.—Affleck at N.Y. Soc. of Security Analysts: High hopes for			
Still negotiating for disposal of Gulf- port Miss stockpile	Dec	15	17	ing case against dye producers N Fiber makers bank on upturn in '77	Nov	24	20	'77	Dec	15	19
port, Miss. stockpile				(chart & table)	Nov	3	34	Ammonia plant at Fortier, La	Dec	8	25 23
to be set up in Florida N	Aug	4	29	permits more stringently	July	7	21	Cyalume chemical lightsticks illuminate the closing ceremony of the XXI Olym-			
Agrico deal with Cofaz may also in-	Dec	22	20	Kepone plea bargain?	July	21 18	16 14	piad in Montreal	Aug	11	14
clude Gesa N Aidex Corp.—Lorenz Chemical see under	Dec	22	29	Allied pleads no contest	Aug	25	24	Cy/Ro Industries joint venture with Rohm GmbH to manufacture and market			
name Air Products & Chemicals—Alkylamines				Kepone pesticide residues found in finfish in Chesapeake Bay	Sept	1	18	cast acrylic sheet	July	7	29
plant at St. Gabriel, La	Nov	3	18	Piguet and Williams acquitted of				Dyes: Justice settles 2-year-old price-		0.4	00
ERDA ponders two bids for coal gasifi-	Nov	17	14	felony conspiracy charges Life Science's president Moore, Jr.	Sept	8	23	fixing case against dye producers N Ervin Co. officers accused of fraud dur-	Nov	24	20
cation joint venture N IFP stack-gas system is ready for			14	pleads no contest	Sept	22	14	ing merger negotiations six years ago	Sept	22	14
utilities	Oct	27 24	44 31	154 charges dismissed against Allied Allied fined maximum	Oct	13	18	Fiber makers bank on upturn in '77 (chart & table)	Nov	3	34
Industrial gas price increases N PVC markets (tables)	Sept	15	34	Kepone hazard in blues	Oct	20	20	Malathion exposure standard planned			
Syngas Co. contracts for gases N	Sept	29	11	Removal of Kepone from James River may be possible N	Nov	10	20	by NIOSH N Methylated melamine coating resin plant	Nov	24	20
Airco—Acquires additional shares of Unitek Corp	Nov	17	22	Paying for Kepone	Nov	17	19	at Kalamazoo, Mich. will double ca-	Ont	6	13
BOC International's bid to retain its 35%				German company seeks partner to make Kepone N	Nov	17	27	pacity N Mexican peso devaluation will reduce		0	13
stake in Airco has the support of the British government	Oct	6	20	New Kepone suit	Nov	24	26	earnings	Sept	29	18
Dividend raised	Aug	18	15	Seeks permit to bury Kepone in abandoned missile silo in Idaho	Nov	24	26	planned	July	7	22
Industrial Gases Div. plans research and		"		Method enables natural gas burners to				Tertiary waste treatment plant in Bound			
specialty gases facility in Research Triangle Park, N.C	Nov	24	26	use liquid fuels	July	21	36 14	Brook, N.J. is activated-carbon prov- ing ground	Sept	29	31
Industrial Gases Div. will build carbon				'76 forecast from Connor to N.Y. Soc. of				Tobias acid plant in Bound Brook, N.J.	Aug	11	16
dioxide plant in Augusta, Ga R Airtron—Bubble memories: Researchers		21	18	Security Analysts	July	28	26	American Enka—Sales and earnings,			10
fabricate new synthetic crystals for bub-				foreign "overbilling" transactions	Dec	8	25	third-quarter losses	Sept	15	16
ble memory data storage	Oct	6	41	PULSE, energy conservation program, to enlist employees' aid	Sept	29	19	Third quarter	Oct	20 27	16 25
Belgium	Nov	3	30	Refinery and related units to be sold to				American Hoechst—Blimp using Trevira	Dec	0	19
Sales and earnings: nine-months '76 . N Akzona—Capital spending	Dec Oct	13	25 22	Carter & Schuler and Independent Refining Corp N	Aug	4	9	Fiber makers bank on upturn in '77		8	
Akzona—Capital spending	Dec	8	25	Rhinechem Corp. acquires organic pig- ments operations at Haledon, N.J.; in-				(chart & table)	Nov Nov	17	34
Fiber makers bank on upturn in '77 (chart & table)	Nov	3	34	corporated as Harmon Colors Corp	Sept	29	21	American Motors—AM General Div.—Bat-		17	
(chart & table)	Oct	20	16	Sales and earnings, second-quarter Third quarter	July	21	17 16	teries for electric vehicles (table) Anticorrosion coatings for cars	Dec	22	31
Third-quarter losses incurred by American Enka subsidiary R	Sept	15	16	Semet-Solvay Div.'s Detroit foundry				Battery-powered jeeps built for Postal	1		
Alamo Cement CoPetroleum coke for		11	12	coke plant capacity increased R Toxicological testing	July	21	18 13	Service	Sept	29	20
process heating				VCM plant near Geismar, La., may be				produced at Framingham, Mass. facility			
substitutes for fluorocarbons		29	17	sold to Robintech N July 21-9 Allis Chalmers—Coal gasification process called "Kilngas" will be a joint develop-		15	34	American Petrofina—Hercofina see under name		29	21
complex at Medicine Hat, Alta:, addi- tions approved	Aug	11	9	ment with 11 electric utilities N Aluminum Pechiney—French joint-ven-	Sept	15	47	American Waterways Operators, Inc.—En- vironmentalists and railroads team up to			
Project discussed in conjunction with the Foothills Project (map)		- 7	19	ture plant to make alumina from non- bauxite materials will start up N	luky	7	32	bar waterway projects	l Dec	15	10
Albright & Wilson—Sales and earnings,				Aluminum Co. of America—Alumina units	3			acquiring Novaloy epoxy powder busi-	-		
first-half	Sept	8	28	restarting in Texas	July Sept	14	17	ness	R Aug	18	15
hikes draw criticism	Dec	8	17	Aluminum price hikes draw criticism	Dec	8	17	maleic plant uses Chem Systems	S		
French joint-venture plant to make alu-				Aluminum prices	Aug Sept	11	19	technology	V Sept	29	34
mina from nonbauxite materials will start up	July	7	32	Capacity at Texas and Alabama reacti-				at Joliet, III.	Oct	13	79
Quebec strikers at three smelters reach accord	Nov	24	25	vatedF Payoffs and political contributions	R Sept	8	28	Cekis forecasts plasticizer markets a CMRA meeting	nt	24	90
Shawinigan smelting and fabricating	1			Foreign payments amounting to al-			,-	China American Petrochemical Co. Ltd	. 1404	24	30
facilities on strike	Nov	17	20	most \$400,000 Corporate funds used at company plant locations for domestic politica	/	21	17	see under name Ethylene unit in Alvin, Tex	Sept	29	44
refinery		14	17	contributions		1	18	Notean tereprimatic acid plant planted	Nov	24	62

Licenses Du Pont's patents on plastic				Malais askuduida aspasitu ta stad un at				Consideration to Continue and the continue of			
bottles made from PET N	Sept	15	9	Maleic anhydride capacity to start up at Neal, W. Va	Sept	29	33	Bassinnova Inc.—Replica perfumes market	Oct	20	29
PET bottles	Aug	25	41	Benzene-based maleic anhydride		10	79	Battelle Columbus Laboratories-Ex-			
Amoco International Ltd.—Intercontinental	Dec	8	41		Oct Sept	13	19	posure to eight chemicals will be studied	Sept	29	33
Quimica, S.A. see under name				Ashland Oil-Interior Dept. agrees to put	oopi			Fluidized-bed combustion contract from		4.0	00
Amoco Minerals—Copper Range still look-				off oil shale prototype program for a	Cant		10		Dec	8	47
ing for buyer as talks with Amoco fall through	Oct	6	19	Outlines efforts to boost its earnings on	Sept	1	12	Battelle Memorial Institute—Culture of animal cells	Aug	11	33
Amoco Oil-Coal liquefaction catalysts un-				each barrel of petroleum handled by				Desulturization process runs into snags	riug		
dergoing tests	Nov	3	18	increasing the proportion that is up-	NI	**	16	on road to commercialization	Sept		44
Oil (Indiana) oil refinery pollution units				graded into petrochemical products . Ashland Oil Canada—Kitimat Pipe Line	Nov	10	15	FBC test	Sept		26 37
to be financed with revenue bonds. N	Oct	20	9	see under name				R&D spending plans: 23% hike forecast	-		
Amoco Production Co.—Iodine joint project with PPG in Woodward, Okla	Dec		23	Ashland Synthetic Fuels Inc.—Coal lique-				N	Dec	15	39
		29	21	faction plant at Catlettsburg, Ky., using H-Coal process, groundbreaking	Dec	22	19	Study on cancer potential of chemicals	Aug	18	23
Anaconda Aluminum—Aluminum capacity				Hoertz, Charles D. Jr. vice-president:				Bausch & Lomb—Soft-lens producers eye	, log		
upped	July	7	27	He's' getting a hard start in the scram- ble for synthetic fuels	Dec	8	72	new materials ,	July	28	44
Japanese pollution control technology at				Associated Laboratories—Acquired by	Dec	0	12	Bayer AG—Brunsbuettel chemical com- plex dyestuffs second stage to begin	Oct	27	41
Columbia Falls, Mont., plant N Brass-tube mills (three) in Waterbury,	Nov	3	13	Rohm and Haas	July	21	31	German drugmakers feel pressure			
Conn. will close	Aug	25	25	Atlantic Richfield—Merger with Anaconda	July	14	20	Nylon production to be discontinued . R	Dec	15 22	25 21
Central business district of Butte, Mont.,	riug	LO	Lo	Atlantic Richfield—Merger with Anaconda near Anaconda shareholders to vote on	July	1.4	20	Rhinechem Corp. acquires Allied's or-	Dec	22	21
which has deteriorated because of the encroachment of Berkeley open-pit				plan to reorganize as wholly owned		00	04	ganic pigments operations at Hale-			
copper mine to be relocated	July	- 14	20	subsidiary	Sept	29	21 16	don, N.J.; incorporated as Har- mon Colors Corp.	Sept	29	21
Chile: copper mines expropriation in '71;	,			Outlines efforts to boost its earnings on	001			Sales and earnings, first-nail 70 N	Sept	8	49
arbitration ruling that OPI is liable for	India	28	27	each barrel of petroleum handled by				Nine-months 76 N	Dec	1	25
the losses upheld R Copper outlook	July Sept	8	22	increasing the proportion that is up- graded into petrochemical products .	Nov	10	25	Titanium dioxide waste disposal battle (table)	Dec	8	65
Copper outlook				Payoffs: questionable payments abroad				Tower biology treatment system	000		
develop Palo Verde, Ariz., copper de-	Sept	1	18	disclosed	Aug	25	23	developed	Nov	10	67
posit	July	14	20	Permanent injunction against enforce- ment of the Federal Ports and Wa-				Trichlorophenol production suspended Veterinary agent, Droncit, knocks out	Aug	18	14
Shareholders to vote on plan to reor-	,			terways Safety Act being requested	Oct	13	23	tapeworms in all stages of develop-			
ganize as wholly owned subsidiary of Atlantic Richfield R	Sept	29	21	Petroleum terminals (8) in Texas sold to	Nov	10	29	ment Waste treatment method makes better	Aug	18	31
FTC delays merger	Oct	20	16	Foremost Petroleum	1404	10	23	use of oxygen in air N	Sept	8	64
Anchor Hocking Corp.—Canning lids				proposed offering of \$150 million of	_			use of oxygen in air N Water-absorbent acrylic fiber N	Dec	8	47
market	Aug	25	47	guaranteed notes filed N Petrochemical joint venture with Du Pont	Sept	22	9	Beatrice Foods—Russia: BF will talk to the			
Montedison's Triolo, Sicily, complex proposed				on the Texas Gulf CoastN	July	7	17	Russians about supplying technology on processed meats	Dec	15	15
proposedN	Oct	6	31	Quarterly dividend	July	7	24	voell, R.A. reports to N.Y. security	-		
Petrochemical plant explosion; arsenic cleanup on	Oct	13	24	Uranium properties and plant sold for \$50 million N	Dec	15	9	analysts	Oct	6	16
rolyolelin paper	Sept	15	43	Atlantic Richfield Hanford—Hanford blast	Dec	10	9	its Beaunit Corp N	Nov	3	13
Ansul Co.—Agricultural chemical div. to be				hits 10	Sept	8	24	Fiber makers bank on upturn in '77			
sold; European fire protection business being reorganized	Nov	10	30	Blast becomes a campaign issue N Sept 15-9	Nov	3	17	(chart & table)	Nov	3	34
Payoffs: questionable payments abroad				Atlas Supply-Radiator flushes: There may				forest wastes pilot plant started up in Al-			
Anta Corp.—Acquisition of PPD Corp. in	Aug	25	23	be problems ahead as antifreeze life is	Mari	10	77	bany, Ore	Dec	22	40
cash deal N	July	14	17	Atomergic Chemetals—lodine com-	Nov	10	77	Kennecott Copper plans to sell Peabody	Sept	8	51
Aquaness Chemical—Surfactant extends	,			pounds	Dec	1	24	Coal to a consortium	Oct	20	20
oil's effectiveness against mosquitoes	Cont	0	07	Avicon Inc.—Fibrous collagen product is	Cont	22	22	Peabody terms told	Dec	8	18
Aquitaine North America—Ventron	Sept	8	27	used to halt bleeding N Avon—Blaumeiser at Grayson Associates'	Sept	22	32	Seattle contracts for plant to produce ammonia from solid waste R	Sept	29	21
management endorses Thiokol's \$44/				seminar says company is switching				Beckman Instruments-Computer-inter-	осре	2.5	2.1
share bid; Aquitaine withdraws offer	Aug	18	14	aerosols into pump sprays	Dec	8	20 29	face system for its electronic process	0	20	00
ARCO Chemical—Chemical refinery for Gulf Coast	Sept	29	44	Deodorant and antiperspirant markets . Avtex Fibers—FCM's Fiber Div. bought	July	7	21	Gas chromatograph for Viking I	Sept	29 28	29
Ethylene units in Channelview, Tex	Sept	29	44	Fiber makers bank on upturn in '77				Specialized reagents for use with diag-			
Nuclear enrichment activities ending . N Uranium enrichment pull-out: Centar	Nov	10	19	(chart & table)	Nov	3	34	nostic units	July	21	31
Project will go to co-participant ENI				ness and made it into a winner	Dec	1	48	Beker to jointly operate fertilizer plants. N.	Aug	4	29
Nuclear N ARCO Pipe Line—Atlantic Richfield goes	Dec	15	9	To market its by-product sulfate N	Oct	27	17	Phosphate fertilizer plant in Brake, Germany July 21-25 N			
ARCO Pipe Line—Atlantic Richfield goes	Sept	22	9					Germany July 21-25 N Phosphate mining	Aug	8	29 16
to the money market N Argonne National Laboratory—Batteries	ocpi							Bell Laboratories—Baker, William O.,	Dec	0	10
for electric vehicles (table)	Dec	1	31	В				president: He's at home in the lab, the			
Conceptual design for a reactor that could produce electricity by means of								marketplace—and Washington Bubble memories: Researchers fabri-	Nov	10	82
fusion	Dec	15	32	BASF AG-German drugmakers feel				cate new synthetic crystals for bubble			
EHUA sponsors survey to determine the				pressure (chart)	Dec	15	25	memory data storage	Oct	6	41
effects thorium may have on the		20	10	Guano-werke AG see under name		10	60	Bend Research Inc.—Separation of cop- per from a leach stream by active			
Pressurized fluid-bed unit will be built to			18	Melamine market and expansions Phthalocyanine pigment plant in Lud-	Nov	10	58	transport across a synthetic membrane			
burn coalN	Aug		44	wigshafen, W. Germany, scheduled to				reported at ACS meeting	Sept	8	58
PFBC processes to be tested Armak—Industrial Chemicals Div.: Fatty	Sep	t 22	24	go onstream	July	21	18 49	Bendix Corp.—Blumenthal, W. Michael named to be Carter Administration's			
amines producers expanding despite				Sales and earnings, first-half '76 N Nine-months '76	Dec	1	25	Secretary of the Treasury	Dec	22	20
threat of overcapacity (chart)	Nov		30	BASE Wyandotte—Chemical Specialties				Bird Machine-Big centrifugals double	Sept	15	47
Labels for hazardous chemicals N Percarbonate market	Oct	25 27	44	Div. West plant in Wyandotte, Mich., ex- pansion	Aug	4	16	solids-separation capacity N Block Drug—Age bias charged	July	7	24
Armco Steel-Coke suit: Allied denies	,	-		Herbicide, Basagran, plant planned at				Boehringer Ingelheim-German drug-			
Armco charges N	July	28	17	Geismar, La., complex N	Nov	3	13	makers feel pressure (chart)	Dec	15	25
Asahi Chemical Industry—Fiber makers cutting production	Nov	17	30	Phthalic anhydride prices N BOC International—Bid to retain its 35%		29	40	makers feel pressure (chart)	Dec	15	25
Ion exchange membrane technique for				stake in Airco has the support of the				Bohemia, IncProcess for bark			
Denki Kagaku's caustic soda plant . R Tongsuh Petrochemical see under name	July	14	21	British government	Oct	6	20	chemicals has won a prize, but not cus- tomers	Dec	22	39
Asahi Glass Co.—Pilkington Bros. offers				BRK Industries—Smoke detector First	Dec	22	30	Boise Cascade—Capital spending: Ferry	000		00
Japanese asbestos sheet process in)			Alert	Sept	22	24	at N.Y. security analysts meeting	Oct	27	21
Western Europe	Oct Sep		71 22	Badger Inc.—Dehydrogenation of ethyl- benzene to styrene	Nov	17	34	Strike ends: production resumes at four West Coast pulp and paper mills R	Aug	4	16
Copper prices	Oct	13	37	Maleic anhydride technology	Oct	13	79	Borden Chemical—Phosphate expansion			
Dividend increase	Aud	4	16	Baker, J.T. Chemical-Ammonium thio-				at Big Four mine	Dec	8	15
East Helena, Mont., plant: Lewis and Clark county to issue bonds for pollu-	1			cyanate capacity at Phillipsburg, N.J. increased	Sant	29	21	Urea-formaldehyde resin prices N VCM capacity boost at Geismar, La	Sept Sept	29 15	40 34
tion control facilities	Nov	17	22	Clinical diagnostics complex in	1			Borden Industrial Food Products—Beel			
Eisenhower Mining, new company to)			winchester, va	July	21	31	Porg-Warner Chemicals Cos-Mar plant	Aug	4	22
develop Palo Verde, Ariz., copper de-	R Sep	t 1	18	Winchester, Va., reagent facility, expan- sion completed	Sept	29 -	21	Borg-Warner Chemicals—Cos-Mar plant addition ships first styrene N	Nov	3	23
posit	1			Ball Corp.—Canning lids market	Aug	25	47	Cos-Mar plant at Carville, La., cuts	3		
start up as early as 79	Sep	ot 8	22	Fisher before Atlanta security analysts	Nov	24	24	energy costs: Steam savings cause makers to rethink process designs		17	34
Aschimici—Italian chemical production recovers	Sep	t 29	27	Sex bias charged	Dec	8	20	Dry, palladium-containing catalyst for	1	17	34
Ashland Chemical—Chemical Products	S		-	suring instruments—ISA show	Oct	20	36	electroless (nonelectrolytic) plating of	f		
Div.: Fatty amines producers expanding	1		20	Bartow Chemical Products—Florida phos-	Das	1	9	metals, called DRI-CAT3 N	Sept	1	40
despite threat of overcapacity (chart)	Nov	, 3	30	phoric plant startup: early in 1977 N	. Dec		9	Modifier prices	Sept		22

Brand-Rex-Sales and earnings, third- quarter	Oct	20	16	Triacetate yarns price N Celanese Corp.—Sales and earnings,	Oct	27	28	Electric passenger car project Sept 29- 20 N	Dec	8	48
Braunschweigische Kohlen-Bergwerke-				second-quarter	July	21	17	'Three-way' catalytic converters to cut	Doc		40
Shale oil complex studied N Brewster Phosphates—Phosphate expan-	Aug	11	25	Third-quarter	Oct	20	16	car pollutants: prospects of tighter auto emissions standards spur re-			
sion at Lonesome Mine	Dec	8	15	Celaya	July Dec	21	29 33		Sept	8	74
market	Aug	25	47	Cemstopel-Process for chemical dis-				Church & Dwight—Baking soda deodorants	Dec	8	32
Bristol-Myers—Deodorant and anti- perspirant markets	Dec	8	29	posal of industrial wastes N Centar Associates—Centrifuge enrichment	July	28	42	Ciba-Geigy—Ciba Pharmaceutical's			
British Coal Utilization Research-PFB				plant July 21-33	Aug	11	15	allergy drug, Pyribenzamine, recalled Cotton pesticides: chlordimeform insec-	Aug	25	24
units	Dec	22	36	Centraal Stikstof Verkoopkantoor—Com- mon Market antitrusters look at fertilizer				ticide recalled	Sept	29	18
production	Nov	17	30	marketsN	July	21	29	Dominguez at MCA 'toxics era' sympo- sium	Nov	24	72
British Industrial Plastics—Goodrich licenses PVC suspension resin produc-				Central de Manutencao de Camacari S.A. Camacari maintenance	July	14	43	German drugmakers feel pressure	Dec	15	25
tion process	Nov	3	18	Central de Tratamento de Efluents Liquidos S.A.—Camacari effluents'				(chart)	Aug	4	29
venture is sidelined N	Nov	10	57	treatment	July	14	43	CICERO—Saudi Arabian desalination program study	Oct	27	44
BP Chemical—Drought causing water wor- ries in Wales	Aug	18	28	Central Illinois Light—Illinois Coal Gasifi- cation Group see under name				Cincinnati Milacron-Equipment will be	OCI	21	44
British Petroleum Trading, LtdDesign				Central Illinois Public Services-Illinois				used by Continental Group to make	Sept	22	19
for Antwerp propylene unit N British Sulphur Ltd.—Fertilizer forecast . N	Dec Sept	15	9	Coal Gasification Group see under name Central Investment Holding Co.—China				Cities Service—Enhanced oil recovery			
Lancaster at FI's World Conference	Sept	29	26	American Petrochemical Co. Ltd. see				project: Cities and ERDA share costs . N Cities Service Helex Co.—Helium breach-	July	14	17
Brock, A.J.—Channel black dye banned . Brockway Glass—Stock redemption R	Sept	29	19 16	under name Central Research Institute of Japan To-				of-contract suit: awards to National He-			05
Broken Hill Associated Smelters-Lead:				bacco Corp Culture of tobacco cells .	Aug	11	33	lium Corp. and CSHC	Nov	24	25
Reflux refining will be tested to make lead	Sept	8	64	Centre Nationale de la Recharche Scientifique—French pilot unit will test				Cities Services Research & Development Co.—Energy Research Lab. reports at			
lead				feasibility of using solar energy to				ACS meeting of flash hydrogenation of			
a consortium to enrich uranium	July	21	33	generate electricity for commercial use . Certain-teed Products—Agrees to shed	Oct	6	35	coal	Sept	8	60
hydrogenation work	Sept	1	33	Shelbyville. Ind., glass-tiper insulation				curity analysts	Nov	17	20
Brown & Root—Contract for Exxon's olefins complex N	Nov	24	19	plant it acquired from PPG in '73 R Cie. de Saint-Gobain Pont-a-Mousson	Sept	8	28	Coalcon—Celanese joins the Coalcon	Sept	1	18
Warfield on tax credit	Sept	29	15	wants majority control of Certain-teed	Sept	1	14	consortium	Dec	22	40
Buffalo Color Corp.—Allied has agreed in principle to sell its Buffalo, N.Y., dye-				Champion International Corp.—Capital spending: Sigler at N.Y. analysts meet-				UC is negotiating possible acquisition of Chemico's 50% share of Coalcon N	Oct	6	13
stuffs plant and related assets to BCC . R		3	18	ing	Oct	27	21	Coalcon takeover completed N	Dec	15	9
Bunker Hill—Litigation concerning the sale of zinc to NL Industries terminated R	Aug	11	16	Champlin Petroleum—International ethylene complex to be built in Corpus				Coalite & Chemical Products—Production of 2,4,5-trichlorophenol at Bolsover			
Burns & Roe—FBC test	Sept	22	26	Christi, Tex	Dec	8	13	plant suspended	Aug	18	14
Business Communications Co.—"Plastics Synthetic Wood" survey	Nov	10	78	Channel Companies—Acquired by Grace N Dec 15-9	Dec	22	13	Coastal & Offshore Plant Systems—Ammonia-urea barge plants may go to			
				Chantiers de l'Atlantique-Study to build				Mideast N Sept 22-9	Nov	24	70
•				ammonia and urea plants on barges Charbonnages de France-Chimie—Ethyl-	Nov	24	70	Coastal Canning Enterprises—Louisiana tax assessor and sheriff, Millet, Jr.,			
•				benzene dehydrogenation technology .	Nov	17	34	sentenced for attempting to extort money			
				Chase Manhattan—Energy Economics Div.'s Winger discusses relationship				and favors from Du Pont's Pontchartrain neoprene facility near New Orleans, and			
CdF-Chimie-French chemical makers	1	7	40	between gross national product and use				attempted extortion of Coastal	Oct	6	18
suffered losses during '75	July	7	40	of energy at Texas A&M symposium Chattanooga Glass—Plastic-coating ma-	Sept	22	17	Coates Brothers & Co. Ltd Tawn, A.R.H.			
plant at Medicine Hat, Alta., fertilizer		40	ne	chine from Wheaton Industries	Aug	25	41	at Paint Research Assn.'s International	Oct	13	76
complex planned	Oct	13	26 16	Chem Systems—Butadiene, economical starting material for butanediol, says				Coca-Cola—Cycle-Sale Dottles N	Aug	25	41
Phosphate mining	Dec	8	25	Chem Systems N	Nov	24	75	Colodense Ltd.—TDI exposure incidents investigated	Sept	29	34
Tenders all of its Ventron shares to	Aug	18	14	—Correction	Oct	13	39 79	Combustion Engineering—FBC test	Sept	22	26
Cadillac Fairview Corp.—Bid for ownership	Nov	17	22	Chemagro-Dylox phosphonate for	r			CE-Lummus see Lummus Co. Combustion Power Co.—Adibatic			
Thiokol Cadillac Fairview Corp.—Bid for ownership of Irvine Co. N Calbiochem—Sales and earnings: '76 six-	1404			budworm control	Nov Aug	18	18 15	combustor unit	Sept	22	25 36
month report (table)	Aug	11	15	Chemetron—Acquisition of INA's two sub-				PFB units		22	30
Calcon Laboratories—Hydrogel lenses Callery Chemical—Dimethylaminebor-	July	28	44	sidiaries	July	28	27	building blocks and tiles	Aug	11	20
anes for use in electroless plating of	1	15	33	Chemical Construction—UC is negotiating	Sept	15	16	Commonwealth Oil Refining Co., Inc.— Merger talks with Tesoro Petroleum			
electronic circuits		10	00	possible acquisition of Chemico's 50%				shelved	Nov	3	18
tional telephone survey of about 1,800 U.S. consumers over the age of 18 find-				share of Coalcon	Oct Dec	15	13	Puerto Rico: Penuelas refinery strike tentatively settled	July	14	23
ings	Nov	24	25	Chemical Design-Unit installed at Ten-	-			Sales and earnings, second-quarter R	Aug	25	25
Canada Development Corp.—Texasgulf's stock bought	Dec	15	15	neco's PVC plant in Pasadena, Tex Chemical Marketing Service, Inc.—Eu-	Aug	11	35	Cia. Brasileira de Estirene—Monsanto thinks big in Brazil	Sept	15	24
Canadian Industries Ltd.—Hydrochloric	2			ropean coatings industry survey and up-				Cia. Brasileira de Plasticos Koppers—		15	24
acid customers on allocation N Canadian Salt—Morton-Norwich tender of	Oct	20	25	date of U.S. coatings industry	Nov	10	78	Monsanto thinks big in Brazil	Sept	15	24
fer canceled	Sept	8	28	pansions	Nov	10	58	operation		14	43
Cape Breton Development Corp.—Kaiser's strontium project to close	Sept	1	9	Chemische Fabrik Budenheim—Offers equivalent product—letter	Oct	6	5	Cia. Espanola de Petroleos—Inter- continental Quimica, S.A. see under			
Carborundum Co.—Aquella virus concen-	-			Chemische Werke Huels AG-Robintech	1			name			
trator will be used in study to determine best way to disinfect waste waters N	Dec	1	39	stock to be bought	1	1	18	Cia. Francaise de l'Azote—Agrico will gel 40% ownership of Cofaz, along with a	(
Carter & Schuler Associates-Acquisition	1		9	Korea Nylon decreased	Aug	18	27	40% stake in a joint phosphate mining)		
of Allied's refinery and related units N Carter-Wallace—Deodorant and anti-	- Aug	4	9	Chevron Chemical—Black flies threater	Sept	22	21	venture to be set up in Florida N Agrico deal with Cofaz may also in-	l Aug	4	29
perspirant markets	Dec	8	29	Florida orange crop; USDA orders	S	10	70	clude Gesa N	Dec	22	29
The Catalyst Co.—Three-way noble meta catalyst system	Sept	8	76	Orthene	n	10	72	Cia. Petroquimica S.A.—Brazil: Bahia	3	14	43
Catalyst Research—Batteries for electric	Dec	,	31	of mosquitos to be tried in Houston	Sept Aug	8	27 20	cie. de Saint-Gobain Pont-a-Mousson-	-	14	40
vehicles (table)	- Dec			Oil spill at Perth Amboy, N.J. terminal . F	Nov F	10	29	Certain-teed's majority control wanted . Cie. Generale de Geophysique—Conduct-	Sept	1	14
zation studied	N Aug	18	23	Orthene Acephate for budworm control Ortho Div. to market Orthene insecticide	Nov	3	18	ing seismic tests in offshore areas of	f		
feeds sought for fuel-cell power plants N	Nov N	3	23	with fewer environmental hazards	V Dec	8	48	Vietnam	Justy I	7	31
Celanese Chemical—Acetic acid and acetic anhydride prices	d N Sept	1 15	33	China American Petrochemical Co. Ltd.— Terephthalic acid joint venture in Taiwan	-			terial, to be revived	N Aug	25	40
Capital spending	. Oct	13	22		V July	28	42	Congoleum Corp.—Tender offer for the 4.7 million outstanding shares of Universa	1		
Fiber makers bank on upturn in '77' (chart & table)	7 Nov	3	34	Chinese Petroleum Corp.—Chine American Petrochemical Co. Ltd. se	a			Leaf Tobacco's common stock F	Nov	10	29
Joins the Coalcon consortium F	R Sept	1 1	18	under name				Conoco Coal Development CoERDA	4		
Ethylene buyer	. Sept	29	47	Chiyoda Chemical Engineering Construction—Flue gas desulfurization	Si n			seeks design bids for two coal gasifica- tion demonstration plants	July	7	22
sion F	Aug F	18	15	process shown at ACHEMA	. July	7	39	Consolidated Packaging—Paper-board	1	,	
Organic chemicals prices	V Sep	t 1	22	Chloride Silent Power—Sodium-sulfur bal tery	- Aug	11	20	box case finally concluded	Dec	8	18
firing boilers	Nov	3	23	tery	u			Consolidation Coal—Conoco Coa Development Co. see under name			
Polyester film prices	VIUL V	28	25 32	Pont: U.S. Supreme Court to decid whether the deal worked out for merge	e			Consolidated Gas Suppy Corp.—Conocc Coal Development Co. see under name)		
Polyester yarn prices	V Dec	22	29	is fair to Du Pont stockholders	. Oct	13	24	Container Corp. of America—Paper-board	1		4.0
Sex bias charged	. Aug.	25 8	41 20	Chrysler Corp.—Anticorrosion coatings for cars	or . Sept	22	21	box case finally concluded	Dec	8	18
	-	-	-								

Continental Group—Polyester beverage bottles to be made	Sept	22	19	Diamond Crystal Salt—Salt prices N Diamond Shamrock—Bricker, W.H. elected chief executive officer; C.A.	Oct	20	25	Toxicology tests show HCBD is carcino- genic, but there may be threshold limits	Sept	8	64
& Bearing plan to produce PET bot- tles; Du Pont declares that it will take				Cash continues as chairman R	July Dec	21	18 28	U.K. ethylene unit feasibility studied N	Aug	11	19
steps to enforce its patents if they are				Chlorine prices	Sept	1	14	VCM capacity addition at Plaquemine,	Dec		25
Continental Insurance—Swine flu vaccine	Oct	6	17	Cool-phos, a methylene chloride-based phosphatizing solution	July	14	39	Water desalting unit to supply Pittsburg	Sept	15	34
insurance	Aug	11	13	Debenture market	Dec	15	15	plant with process water	July	14	22
Development Co. see under name				Electro Chemicals Div. will expand po- tassium carbonate capacity at Muscle				Dow Chemical Korea—South Korean petrochemical complex is moving ahead N Oct 27-27			
Ethylene from hydrocarbons process	Dec	15	40	Shoals, Ala	July	21	18	ahead N Oct 27-27	Nov	24	26
H-Coal pilot plant in Kentucky	Dec	22	19	Payoffs: Questionable payment dis-	Nov			downs if government controls are not			
Oletins complex at Chocolate Bayou,	Sept	29	44	PVC markets (tables)	Nov Sept	10	27 34	lifted	Aug	18	26
PVC expansion at Aberdeen, Miss	Sept	15	37	PVC prices	Sept	8	55	propriate staffing for occupational health			
Conzinc Riotinto of Australia Ltd.— Considering a consortium to enrich ura-				Purchases patents and facilities relating to electrochemistry from Electronor					Dec		15 13
	July	21	33	Corp	Sept	1	18	Dow Corning—Drought causing water wor-			
chemical complex off to a smooth				Sale and earnings, second-quarter Trichloroethylene capacity at Deer Park,	July	21	17	ries in Wales	Aug		28 16
start	July	14	43	Tex., upped	July	21	20	Organic chemical prices N Silastic silicone rubber used in new	Dec	8	28
and urea plants on barges	Nov	24	70	ing residual VCM from PVC dispersion			05	abortion device	Dec		17
Copper Range—Copper outlook	Sept	8	22	Zincrometal process—anticorrosion	Aug	11	35	Silicon, experimental soft-contact lens . Silicone prices N July 7-27 N	July July		32
	Nov	24	19	coating for autos	Sept	22	21	Dravo Corp.—Contract for Hooker's Za- remba caustic soda evaporation plant at			
Amoco Minerals fall through	Oct	6	19	in Saskatchewan bought from Mon-				Niagara Falls, N.Y	Nov	3	18
Cornell-Dublier—Massachusetts: PCB	July	21	33	santo	July	7	24	Spokane Indian Reservation develop- ment of Sherwood uranium ore body			
contamination in shellfish found as high			10	new order for Liquid Air N	Aug	11	9	nets OK N	Oct	13	17
as 53 parts/million	Sept	29	18	Dooner Laboratories Inc.—Rorer-Amchem acquisition	Nov	10	29	Drew Chemical—Additive can cut fuel oil consumption 5%	Dec	8	47
from infringing on its patents on optical	traba	21	18	Dorr-Oliver—Licensing rights to Ecolotrol's Hy-Flo process	Sept	1	40	Du Pont—Aniline market recovery has producers studying expansion plans (ta-			
Cosden Oil & Chemical—Big Spring, Tex.,	July			Dow Badische-Fiber makers bank on				ble)	Aug	11	23
plant damaged by explosions and fire R Cos-Mar plant addition ships first	July	28	26	upturn in '77 (chart & table)	Nov	3	34	Blimp using Dacron to be tested California art experience a "running	Dec	8	19
styreneN	Nov	3	23	Nylon prices	Sept	8	55	fence" made of nylon	Sept	29	19
Cos-Mar plant at Carville, La., cuts energy costs: Steam savings cause				Antifreeze market: Back to hard sell Batteries for electric vehicles (table)	Oct Dec	13	38	Carney's Point, N.J. nitrocellulose			
makers to rethink process designs	Nov	17	34	BCME: Tests show bis-chloromethyl ether to be no problem in textile				plant	July Aug	28	26 14
Dehydrogenation of ethylbenzene to styrene	Nov	17	34	processing N	Aug	4	40	Report on incidence of cancer at eight			
Cotton Inc.—Electrically charged spray	Oct	6	36	Brazilian plant will be in the Aratu In- dustrial Center	July	14	43	N.J. plants from '56 to '74 New cancer data reported	Aug Sept	11	13
Cotton Petroleum Corp.—United Energy				Brazilian subsidiary building R&D				Capital spending	Oct	13	22
Courtaulds Ltd.—Fiber makers bank on	Sept	29	11	California: Building of styrene unit in	Dec	1	27	Chambers Works complex in Deep- water, N.J.: Bonds to finance cleanup			
upturn in '77 (chart & table)	Nov Nov	17	34	jeopardy over environmental challenge	July	21	15	Chemical refinery for Gulf Coast	Nov Sept	3 29	13
Fibers slump will close six plants and				'Final decision' will be made next				Clinical diagnostics market	July	21	31
reorganize another N Coyne Chemical—Seattle contracts for	Nov	3	27	month	July	28 25	17 24	Cooper River polyester fiber plant near Charleston, S.C. starts up N	Dec	8	28
plant to produce ammonia from solid	Cont	20	21	ARB in San Francisco to reconsider	Sont	1	16	Dividend, quarterly		1	-18
Crane Co.—Anaconda merger with ARCO	Sept	29		denial of construction permit Capital spending Chlorinated solvents prices N Chlorine prices N	Oct	13	22	fixing case against dye producers N	Nov	24	20
Crompton & Knowles—Canadian sub-	July	14	20	Chlorinated solvents prices N Chlorine prices N	Dec	8 22	28 29	Fiber makers bank on upturn in '77 (chart & table)	Nov	3	34
sidiary of Kem Mfg. to be acquired R	Oct	13	26	Chibromethanes plant at Freeport, Tex.,		7	17	Fiber makers cutting production	Nov Nov	17	30 72
Crown Zellerbach International—Kraft pulp mill in Brazil planned R	Nov	17	22	to double capacity N Claims that is unfair for strikers to picket	July	,	11	Fluorocarbon 22: company warns of		10	
Cryomedics Inc.—Rorer-Amchem acqui- sition	Nov	10	29	retail outlets sent back to the NLRB for reconsideration by Supreme Court	Oct	13	24	F-22: Lorenz says three years' testing	Dec	-1	15
Crystal Optics Co.—Bubble memories: Re-		,,,		Clean air vs. jobs-a case history: Dow				will be needed before F-22 can be	Dec	15	15
searchers fabricate new synthetic crystals for bubble memory data				plant in California may set U.S. enforcement pattern	Oct	27	50	cleared			
storage	Oct	6	41	Dow appeals for styrene plant Dielectric fluid-making facilities at Mid-	Nov	10	30	to steam and hot water	Oct July	13 28	68 44
test N Aug 25-44	Sept	22	24	land, Mich., expansion	Sept	1	18	Ford Motor strike not a matter of great			
Power Systems Div. pilot plant will test fluidized-bed combustion of coal at				Drought causing water worries in Wales Ethylene: oxide and glycol units at	Aug	18	28	concern to CPI at this time	Sept	22	11
Woodridge, N.J.	Dec	22	36	Plaquemine, La., to resume partial		•	00	Medicine director Charles F. Rein- hardt: He chose occupational medicine			
Cuthbert, R&G Ltd.—KemaNord acquires 90% of shares	Sept	29	27	production	Sept Sept	8	28 44	because the hours were better	Sept	8	80
Cydsa—Mexican petrochemical pact N Cydsa-Bayer—Toluene diisocyanate and	Dec	22	33	FBC test	Sept	22	26	Heckert on Toxic Substance Control Ac calls on industry to share information			
dimethyl terephthalate unit at Veracruz N	July	21	29	mercial installation of Cosorb process		45	0.	'openly and candidly'	Dec	15	37
Cy/Ro Industries—Cyanamid-Rohm ven- ture to manufacture and market cast				to recover carbon monoxide		. 15	31	Holmes at CMRA additives meeting Hydrogen peroxide markets (table)	Sept	24	84 23
acrylic sheet	July	7	29	Human Cancer debates threshold limits for chemical carcinogens	Sept	22	29	Independent unions disbandment could	Nov	17	21
				Hot-tap welding study begins at Battelle				benefit Steelworkers	Nov	3	18
U				Indonesian ethylene project faces		11	37	Layoffs: Textile fibers operations' job cuts slated	Sept	8	23
DCM Melamine market and expensions	Mari	10	50	cutback	Nov	3	27	Liquid crystal mixes as the melt materia for spinning fibers	1	24	81
DSM—Melamine market and expansions . Polypropylene plant to be built at Beek N	Nov Dec	10	58 41	Inorganic chemical prices	Dec Dec	8	14	Louisiana tax assessor and sheriff, L.J	4	24	01
Daro Products—Urethane systems for maxillofacial prosthodontics	Dec	15	42	MCA study shows no-effect level to acrylonitrile	l Nov	17	43	Millet, Jr., sentenced for attempting to extort money and favors from DP's			
Dart Industries-Mullaney, Thomas P.				Methylene chloride expansions	July	14	39	Pont-chartrain neoprene facility nea New Orleans, and attempted extortion	ſ		
named president	Oct	6	17	Mexican peso devaluation will reduce earnings	Sept	29	18	of Coastal Canning Enterprises	Oct	6	19
disclosed	Aug	25	23	earnings Plant nutrient prices Pruitt at Texas A&M energy and feed	N Aug	4	19	Merger plan with Shenandoah Oi	Luke	21	15
search	Sept	8	76	Stocks symposium says rexas may be	9			collapses Merger with Christiana: U.S. Supreme	July	21	10
Dayco Corp.—Springfield, Mo., plant workers strike	Oct	20	17	losing out as preferred petrochemica area of the U.S.	Sept	22	17	Court to decide whether the dea worked out for the merger is fair to Du			
Deepwater Chemical—Iodine compounds	Dec	1	24	Reldan chloropyrios for budworm con	Nov			Pont stockholders	Oct	13	24
Degussa—Zeolite detergent formulations growing N Denki Kagaku Kogyo—Caustic soda plant	Dec	8	13	Styrene looks good so far in toxicolog	V	3	18	Mexican peso devaluation will reduce	9	4	19
Denki Kagaku Kogyo—Caustic soda plant at Omi, Honshu Island, completed R	July	14	21	tests	V July	7	32	earnings	Sept	29 22	18 33
Chloroprene rubber plant	Aug	11	28	prices	V July	14	32	Partner in Isocianatos de Brasil S.A	July	14	43
Desc—Mexican petrochemical pact N Deseret Pharmaceutical Co.—Acquired by		22	33	Texas Div. installing alternative fuel ca pability in the boiler furnaces	. Aug	11	12	Petrochemical joint venture with ARCO on the Texas Gulf Coast	V July	7	17
Warner-Lambert	Dec	15	19	Texas Div.'s brine shrimp experiment Pilot system removes bacterial solids	t:			Pneumacel products discontinued Polyester fiber prices	R Aug	18	15 28
survey of about 1,800 U.S. consumers			0-	may cut operating costs	. Aug	11	40	Polyester filament prices	Oct	13	37
over the age of 18 findings	Nov	24	25	TDI plant in Freeport, Tex	NOV	17	22	Polyester tilm prices	July	28	32

PET bottles: Amoco licenses patents on plastic bottles made from PET N	Sept	15	9	Empresa Nacional del Petroleo—Ethylene plant at Tarragona due onstream soon N	Nov	24	62	Hydrogen peroxide markets (table) Inorganic chemical prices	Sep. Dec	1 8	23
PET bottles: Continental Group and Hoover Ball & Bearing plan to produce	осрі			Enenco Inc.—Supplier of amines and deri-	Nov	-	30	Inorganic chemical prices N Louisiana-Pacific to buy FMC's 50% interest in Ketchikan Pulp R		3	18
PE terephthalate bottles; Du Pont declares that it will take steps to				Energy Research Associates—Batteries for	Dec		31	50% interest in KP sold to L-P for \$46	Nov		29
enforce its patents if they are infringed	Oct	6	17	electric vehicles (table)	000		0,	Material Handling Systems DivVene-	Dec	22	13
Radiator flushes	Nov	10	17	Peter D. Weisse: He sees pollution as the			40	"Natural" soda ash expansions (chart) .	Nov	3	14
	Oct	6	13		Aug Aug	11 25	48		Dec	15	17
Shapiro at security analysts meeting . Surlyn ionomer coating for glass soft-	Nov	24	24	Minerals & Chemicals Div.—McIntyre, Ga., kaolin plant strike ends R	Dec	8	25	Product FMC 33297 for budworm con- trol	Nov	3	18
	Dec	15	29		Sept	8	76	Pulp mill shutdown probable in June '77 Sale of Fiber Div. to Avtex Fibers; other	July	7	21
drink bottles N Surlyn ionomer for glass bottles encap- sulation Syngas Co. see under name	Aug	25	41	meeting: European fiber makers face	July	14	25	deals involve pulping and pump	July	7	21
1102 to anocate another \$20 million (to				Fiber makers cutting production	Nov	17	30	operations			
\$40 million) for preliminary work on De Lisle, Miss. plant N	July	14	32	Enren Corp.—TVA pan granulation	Aug	18	18	Sales and earnings, third-quarter-cor-	Oct	13	26
Plant under attack N	Sept	29 8	11	process for making ammonium nitrate	July	28	28	rection	Nov	17	21
Toxicology testing expansion	July	21	13	Entreprise Miniere et Chimique—Mono- poly on potash sales to French fertilizer				Zeolite will have little impact on phos-	Nov	3	32
plant removes 15% more BOD when	Sept	1	23		July	21	25	phate demand	Dec	8	14
Zerex: company agrees to continue to	93	25	25	Copper plans to sell Peabody Coal to a	Oct	20	20	Associates' seminar talks about Macho ad campaign	Dec	8	20
Du Pont Ltd. (U.K.)—TDI exposure incidents: free of problems at Maydown,	Aug	23	23	Peabody terms told	Dec	8	18	Fairfield Associates—Dworkin at CMRA			
Ireland plant	Sept	29	34	Equity Oil—ERDA negotiations with four companies for in situ shale oil recovery				rarbwerke Hoechst AG—Chemical sales	Nov	24	84
"combination and conspiracy" to				ERCO Industries LtdU.S. sodium	July	7	32	rolling at a respectable clip N Continuous process for percarbonates .	Nov Oct	10	57 43
restrain trade in potash from 69 to 74 Saskatchewan province acquiring po-	July	7	22	chlorate plant planned N Ericsson Chemical Services, Inc.—Bu-	Nov	17	13	Fiber makers cutting production	Nov	17	30
tash mine and mill	Aug	18	15	tadiene markets firm despite rubber	July	21	20	(chart)	Dec Dec	15	25 25
potash producers in the U.S N	July	21	20	Ethylene units will co-produce more bu-	July	21	20	Polyolefin paper	Sept	15	43
Duval Sales—Potash: Duval charged with "combination and conspiracy" to				tadiene, but won't swamp markets (ta- bles)	Sept	8	70	Polyolefin paper Sales and earnings N Sept 1-25, N Oct 6-31 N Tarragona Quimica S.A. see under	Dec	8	42
restrain trade in potash from '69 to '74 Dynapol Corp.—Dihydrochalcones,	July	7	22	Ernst & Ernst—Plastics markets rebound (chart)	Nov	24	32	Tarragona Quimica S.A. see under name			
synthetic sweeteners, derived from citrus peels look promising	Nov	24	68	Ervin Co.—American Cyanamid alleges fraud during merger negotiations six				Farmers Union Central Exchange—Kitimat Pipe Line see under name			
Polymer-bound food colorants: Dynapol aims at \$25-million food-coloring	1404		00	years ago Esmark—Swift Chemical Div.: phosphate	Sept	22	14	Federale Kinsmis-Phosphoric unit comes	D		
market with new inert polymers	Aug	4	21	mining	Dec	8	16	onstream in S. Africa	Dec	15	21
Dyno Industri A/S—Partner in Netherlands methanol plant	Sept	29	27	electronic assembly plant plagued by ill-				derconsorzi to jointly operate fertilizer plants	Aug	4	29
E				nesses	Oct	20 27	18	plants			
-				Esso-Ethylene plant for Scotland	Dec	1	25	up chemistry in college—now he runs chemical specialty firm	Aug	18	40
EG&G's Bionomics—"Aquatic toxicology			05	Essochem—U.S. controls on crude oil and feedstock prices are affecting U.S.	Dec		2.5	Fibras Sinteticas—Polyester plant at Veracruz N	Aug		
is an infant science" says K.J. Macek ELT, Inc.—Acquisition of NL Industries'	Nov	3	25	chemical operations in Europe N	July	14	25	Fibras Sinteticas da Bania S.A.—Brazil:		21	29
Dutch Boy Paints Div	Dec	22	19	Estireno do Nordeste—Foster Grant holds one-third of Estireno	July	14	43	Bahia operation Finnish Sugar Co.—Sweetener, xylitol, has	July	14	43
for multiple batch processing	Sept	29	29	ETA, Inc.—Illinois' regulation to require registration of toxic substances: Report-				major plus: it reduces tooth decay Firestone Tire & Rubber—Diversification	July	14	37
in Centar Project	Dec	15	9	ing costs pegged	Aug	4	16	into nonautomotive areas: Riley at St. Louis Society of Financial Analysts	Sept	29	20
search Sept 29-20, Dec 1-31 N	Dec	8	48	near Magnolia, Ark. Ethyl S.A.—Aluminum alkyl chemicals	Nov	3	30	Fiber makers bank on upturn in '77			
Eagle-Picher—Batteries for electric vehi- cles (table)	Dec	1	31	plant in Feluy, Belgium N		6	13	(chart & table)	July	14	34 20
Easiman Chemical—Fiber makers bank on upturn in '77 (chart & table)	Nov	3	34	Eurodif—Gaseous diffusion plant Evergard Fire Alarm Co.—Smoke detector	July	21	33	PVC plant at an unspecified site planned R Sept 8-28	Sept	15	37
PET bottles Eastman Kodak—Patent infringement suit	Aug	25	41	Exxon Chemical Co.—Allen on ethylene markets	Sept	29	41	Sales and earnings: 4th quarter R Strike: Progress in URW talks	Dec	15	17
against Southern Shortenings N Polaroid charges Eastman with infringe-	July	21	9	Butadiene: D.M. Allen discusses co- product material	Sept	8	72	Talks go on	July	14	23 16
ment of 10 Tanadium photo patents R	Oct	6	20	Correction	Sept	22	19	'Cause for ontimism'	Aug	18	13
Polaroid wins temporary injunction in British high court restraining Kodak				sion	Oct	27	17	Rubber accord near Goodyear signs up Workers return to work	Aug	25	13
Ltd. from manufacturing and selling its range of instant-picture cameras and				proved N Nov 24-19 N	Dec	22	13			8 15	23 14
film in the U.K	Oct	18 20	13 16	Phthalic anhydride prices N Exxon Corp.—Chemical expansions to		29	40	First Boston Corp.—"Chemical Com- modities Indicator"N	Dec	8	13
Ecolotrol—Fluidized-bed system cuts costs of waste treatment N		1	40	total \$2 billion	Dec	22	13	First Chemical Corp.—Aniline market recovery has producers studying expan-			
Eisenhower Mining Co.—Formed to develop Palo Verde, Ariz., copper de-				Offshore Atlantic lease bids N	Aug	11 25	37 17	sion plans (table)	Aug	11	23
posit	Sept	1	18	Shipboard plant to process crude oil may be moored off Santa Barbara,				Corp. see under name			
River coking properties in British				Calif	Dec	15	39	Fisher Controls—Mini-computer system— ISA meeting Process control equipment	Oct	20	36
Columbia	Oct	13	17	vehicles (table)	Dec	1	31	Fisk Bros. Refining—Warning on oils	Oct	29 20	29 20
Europe offers good methionine markets		7	17	Exxon Nuclear—Centrifuge enrichment plant July 21-33	Aug	11	15	Fisons Inc.—Muskegon, Mich. will be site of major U.S. manufacturing location	Sept	15	51
Electronor Corp.—Diamond Shamrock purchases certain patents and other in-				Exxon Research & Engineering—Cosorb technology marketed by Tenneco is				Syntex unit failed to fulfill antiasthma drug marketing pact	Nov	3	20
tangible assets and research facilities re-			40	ready for recovering ethylene following				Flambeau Paper Co.—Methanol derived	1		
lating to electrochemistry	1	1	18	commercial success with carbon monoxide	Dec	15	31	from wood rather than from natural gas. Flordia Gas Transmission—Natural gas	3	11	11
formed: French oil merger to strengther chemicals	July	21	29	Fluidized—bed combustion contract from ERDA N	Dec	8	47	pipeline in Gulf: FPC okay sought Fluidized Combustion Co.—FBC test	Aug Sept	22	9 26
El Paso Co.—All-Alaska pipeline ad- vocated (map)	July	7	19	FBC miniplant at Linden, N.J	Sept	22	25 26	Fluidyne Engineering Corp.—Fluidized bed combustion contract from ERDA . N	Dec	8	47
Beaunit Corp. buyer sought N El Paso Natural Gas—Conoco Coa	Nov	3	13	PFB units	Dec	22	36	FBC test Fluor Corp.—Barge-mounted processing	Sept	22	26
Development Co. see under name				_				plants studied	Nov	24	70
Emery Industries—Becomes majo shareholder of Quimica Michoacana	3							Kennecott Copper plans to sell Peabod Coal to a consortium	Oct	20	20
S.A.de C.V	-	4	9					Peabody terms told	-	8	18
European consortium buys 50% interes in Elk River coking coal properties in	t			FMC Corp.—Avicel expansion at Newark Del. and Ireland	Sept	29	11	ing ahead N Oct 27-27	Nov -	24	26
B.C	V Oct	13	17	Avicon Inc., joint venture, introduces fibrous collagen product used to hal	3			thane foam for filling and sealing gaps. Ford Motor—Batteries for electric vehicle	Oct	13	77
Corp.—Aqueouscarbonate process	:			bleeding	Sept	22	32	(table)	. Dec	1	31
Sulfur-from-stack-gas will get \$22 million test		14	29	Barium and strontium carbonate prices	Sept	15	33	Equipment aimed at producing the five year perforation-free car	Sept	22	21

Gerrity, Robert M., chief plastics engineer: He heads drive to trim	Cost	20	20	Silicon fluids to be tested as replace-	Oct	13	24	PVC: Rhone-Poulenc "microsuspen- sion" polymerization to be installed at	Cart	15	20
weight of cars by using more plastics Labana at Adhesives and Sealant	Sept	29	38	ment for PCBs	Nov	25	55	Niagara Falls, N.Y. plant	Sept	15	36
Council seminar	Oct	27	39	Silicones prices N Smoke detectors market	July Dec	28 22	32	14-23, Aug 11-16, Aug 18-13	Aug Sept	25	23 13
'Three-way' catalytic converters to cut	Sept	22	11	General Foods—Ferguson at AIChE calls for a reappraisal of government regula-				Back to making tires	Sept Sept	8 15	23 14
car pollutants: prospects of tighter auto emissions standards spur re-				tion in industry	Sept Sept	8 22	54 26	Gould Inc.—Batteries for electric vehicles (table)	Dec	1	31
oremost Petroleum Corp.—Atlantic	Sept	8	74	Pectin market	Aug	25	47	Battery-powered jeeps built for Postal Service	Sept	29	20
Richfield's eight petroleum terminals in Texas bought	Nov	10	29	fiscal 1976	Sept	8	28	Century Electric Div.'s electric motors cut power costs	Aug	18	23
ormica Corp.—Evandale, O., plant's ex-	Nov	17	13	General Mills Chemicals—Supplier of amines and derivatives	Nov	3	30	Grace, W.R. & Co.—Acquisition of Chan- nel Companies N Dec 15-9 N	Dec	22	13
oster Grant—Holds one-third of Estireno	July	14	43	Xanthan gum production pull out: \$2- million write-off slated	Sept	22	17	Acquisition of Handy City, Inc N Bartow Chemical Products Div. see	Dec	22	13
oster Wheeler Corp.—Algerian deal for	July	28	17	General Motors—Anticorrosion coatings for cars	Sept	22	21	under name Coal liquefaction catalysts undergoing			
oster Wheeler Energy Corp.—Rivesville			24	Auto makers turn to anticorrosion coat-	Sept	22	21	tests R	Nov	3	18
oster Wheeler Italiana—Contract for Ant-	Sept	22	9	ings	Dec	1	31	Cryovac Div.'s headquarters in Duncan, S.C. expansion	Aug	18	15
oxboro-New line of instrumentation	Dec Sept	15 29	29	Council seminar	Oct	27	37	acid and amino acid products plant at			
reeport Chemical—Uranium recovery project at complex near Uncle Sam, La.;				sought by NIOSH Electrochemical process is developed to	Dec	8	25	Nashua, N.H	July	14	21
drilling in the inland coastal waters of La. in hopes of developing a new Frasch				recover oil from wastewater N 'Three-way' catalytic converters to cut	Oct	13	71	SiteGrayson Associates—Fragrance workshop	Dec	8	15
reeport Indonesia—For Freeport Min-	Aug	18	9	car pollutants: prospects of tighter				and seminar	Dec	8	20
erals, developing mine in Indonesia means many social problems (map)	Sept	1	26	auto emissions standards spur re- search	Sept	8	74	W. financial v-p and secretary: This chemist is at home in the lab and in Wall			
reeport Minerals-Douglas, Paul Wolff, president and chief executive officer:				General Tire & Rubber—Ashtabula O., plant gas exposure litigation settled R	Nov	17	22	Street	Oct	13	88
Lure of far-off lands has always been a	Sept	1	43	RKO General to be spun off to reduce TV licensing challenges arising from				found in diatomite quarry	Oct	13	26
Indonesia: For FM, developing mine in	COP			foreign bribe allegations R Generale des Engrais—Agrico phosphate	Sept	29	21	down	July	28	23
Indonesia means many social prob- lems (map)	Sept	1	16	deal with Cofaz may also include Gesa N Geokinetics Oil Shale Group—ERDA ne-	Dec	22	29	Grow Chemical-Sales and earnings for	Oct	20	19
bination and conspiracy" to restrain	1.1	7	00	gotiations with four companies for in situ shale oil recovery technology research N	July	7	32	fiscal year		1	18
Potash: Smith & Brook's price-fixing suit	July	7	22	Georgia Pacific-Ammonia plant at				lium-filled PE balloon	Aug	4	16
against potash producers in the U.S.	July	21	20	Plaquemine, La., complex planned Aug 4-16	Aug	11	11	of hydrofluorosilicic acid planned R Gulf Coast Olefins—Company set up by		14	21
rench Petroleum Institute—IFP stack-gas system is ready for utilities N	Oct	27	44	Methanol: ammonia project calls for an	Aug	4	16	UC and Soc. Financiere Eunopeenne	Sept	29 20	20
rost & Sullivan Inc.—Market for sealants and adhesives	Oct	27	39	increase of 6.4-million gal./year of methanol output Aug 4-16	Aug	11	11	Gas conspiracy hinted: FPC's Zimmet calls for a Justice Dept. antitrust inves-			
Pesticides' R&D expenditures study Study on European specialties market .	Oct	6	25 40	GEREP—Collective treatment center in Belgium	July	28	42	tigation	Aug	25	24
Fusion Energy Corp.—Saudi Arabian fast- breeder research program N		27	44	Gesellschaft fuer Molekularbiologische Forschung-Rauwolfia cultures for the	,			prototype program for a year	Sept Aug	1 25	12
G		-		production of alkaloids	Aug	11	-31	Gulf Oil Canada—Capacity glut in Canada: President Stoik at N.Y. security analysts meeting	July	14	21
GAF Corp.—Dyes: Justice settles 2-year-				Oil and Mission Corp. by a merger R July 28-27	Nov	17	22	Does not think domestic oil will be able to provide its share of the eastern Ca-			
old price-fixing care against dye producersN	Nov	24	20	Offshore Atlantic lease bids N Gillette—Aerosol makers search for sub-		25	17	nadian market beyond 1984 Sulfur-paving process	Sept	8	26
lodophors	Dec	1	24	Stitutes for fluorocarbons	Sept	29	17 29	Gulf Oil Chemicals Co.—Doerr on ethylene markets	Sept	29	4
pansion and modernization R Toxicological testing	Dec July	21	18 13	Smoke detectors market	Dec	22	30	Ethylene plant in Cedar Bayou, Tex Retrofit unit for nitric plants knocks out	Sept	29	44
Ultraviolet light-absorber chemicals	July	7	27	work well with DHC sweeteners	Nov	24	68	NOX	July	28	33
Gametrics Ltd.—Rodenticide called Epibloc, new poison for rats	Dec	15	47	makes pitch for more marketer- perfumer cooperation	Dec	8	20	Corp. of America see under name Stock offering		18	1!
Gardinier IncWilkinson at AIChE meet-				Globe Union—Batteries for electric vehi- cles (table)	Dec	1	31	Olock Ollothing	riug	10	
ing discusses uranium from phosphate . Garrett Nuclear Corp.—Centrifuge enrich-	Dec	8	59	Gold Kist Inc.—Fireplace logs from peanut		17	46	н			
ment plant July 21-33	Aug	11	15	shells	Oct	20	20				
gentina increased N Construction bids for gas extraction		28	42	Goodrich, B.F. Chemicals-PVC com-				Halcon International—Mendolia, A. at Brazilian Petrochemical Congress	Dec	1	2
plant called for	Sept	15	21	pounds cut flame-spread and smoke . N PVC compounds prices	Aug	15	47 18	Halliburton—Bohemia Inc. exploring use of powder from bark as a dispersant in	1		
trochemical complexes as multinational ventures, linked by ship (tables)	Dec	8	44	PVC markets (tables)	Sept	15	34	drilling muds	Dec Dec	22	3
General Atomic—Nuclear reactor will be developed by U.SEuropean team N	Nov	10	61	process licensed to British Industria	1	3	18	Hanford Nuclear Reservation—Richland Wash., explosion contaminates 10	,	8	2
General Dynamics—LNG tank towed on specially constructed barge from				Goodrich, B.F. Co.—Akron meeting of Dutch government officials and	f			Nuclear plant balst becomes cam paign issue N Sept 15-9		3	1
Charleston, S.C. to Quincy, Mass	Dec	15	18	Goodrich representatives ends withou an agreement on the future o	t			Hanil Synthetic Fiber Industries—Tongsul Petrochemical see under name	1		
Contrar Electric Balleries for Greenie 10	Dec	1	31	Vredestein	July	14 28	21	Hansen's, Chr. Laboratory IncBee			2
hicles (table)			40	Mexican peso float will reduce earnings	Sept	29	18	Powders	Aug	4	2
Electric passenger car project Sept 29- 20 N		8	48	mexican poso nout mil roddoo carringo				Chief executive officer James E			
Electric passenger car project Sept 29- 20	Aug	8 25	44	Netherlands' government buys 49% of International B.F. Goodrich Europe	;			Hardwicke, Jr.: Entrepreneur gets a kic			6
Electric passenger car project Sept 29- 20 N Fluidized-bed combustion test N Insurance program discriminates against women by omitting pregnancy from coverage charged: Supreme Court to	Aug	25	44	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundation.	Oct	27	23	Hardwicke, Jr.: Entrepreneur gets a kicl out of developing new processes Harima Chemical Co.—Rosin and nava	Aug	25	
Electric passenger car project Sept 29- 20 N Fluidized-bed combustion test N Insurance program discriminates against women by omitting pregnancy from coverage charged: Supreme Court to decide case	Aug	25	20	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundation Payoffs: additional questionable pay ments reported.	Oct	27	23	Hardwicke, Jr.: Entrepreneur gets a kicl out of developing new processes Harima Chemical Co.—Rosin and nava stores outlook	Aug	25	3
Electric passenger car project Sept 29- 20 . Fluidized-bed combustion test N Insurance program discriminates against women by omitting pregnancy from coverage charged: Supreme Court to decide case Membrane, ultrathin, may cut natural gas bills Merger acquisition of Utah International	Dec July	25	20 28	Netherlands' government buys 49% o International B.F. Goodrich Europe additional 2% sold to a Dutch foundation Payoffs: additional questionable pay ments reported Rubber workers strike July 7-21, Jul	Oct Aug			Hardwicke, Jr.: Entrepreneur gets a kicl out of developing new processes Harima Chemical Co.—Rosin and naws stores outlook Harmon Colors Corp.—Rhinechem Corp acquires Allied's organic pigment	Aug I Oct		3
Electric passenger car project Sept 29- 20 . Fluidized-bed combustion test N N Fluidized-bed combustion test N N Insurance program discriminates against women by omitting pregnancy from coverage charged: Supreme Court to decide case Membrane, ultrathin, may cut natural gas bills N Merger acquisition of Utah International fails to get Justice Okay	Dec July Aug	25 8 28 4	20 28 14	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundal tion Payoffs: additional questionable pay ments reported Rubber workers strike July 7-21, Jul 14-23, Aug 11-16, Aug 18-13, Au 25-23	Oct Aug Sept	4	14	Hardwicke, Jr.: Entrepreneur gets a kic out of developing new processes Harima Chemical Co.—Rosin and nave stores outlook Harmon Colors Corp.—Rhinechem Corp acquires Allied's organic pigment operations at Haledon, N.J.; incor porated as Harmon Colors Corp.	Aug Oct	27	
Electric passenger car project Sept 29- 20 N Fluidized-bed combustion test N N Fluidized-bed combustion test N N Insurance program discriminates against women by omitting pregnancy from coverage charged: Supreme Court to decide case Membrane, ultrahin, may cut natural gas bills N Merger acquisition of Utah International fails to get Justice okay Justice Dept. won't block merger Merger approved R	Dec July Aug Oct	25 8 28	20 28	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundaltion. Payoffs: additional questionable pay ments reported Rubber workers strike July 7-21, Jul 14-23, Aug 11-16, Aug 18-13, Au 25-23 Settlement talks deadlocked Agreement reached	Oct Aug Sept Sept Sept Sept	1 8	14	Hardwicke, Jr.: Entrepreneur gets a kic out of developing new processes . Harima Chemical Co.—Rosin and nave stores outlook . Harmon Colors Corp.—Rhinechem Corp acquires Allied's organic pigment operations at Haledon, N.J.; incorporated as Harmon Colors Corp. Hayashibara Biochemical Laboratories—Starch-to-plastic route commercialize	Aug Oct	27	2
Electric passenger car project Sept 29- 20	Dec July Aug Oct Dec	25 8 28 4 13	20 28 14 26	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundation Payoffs: additional questionable pay ments reported Rubber workers strike July 7-21, Jul 14-23, Aug 11-16, Aug 18-13, Au 25-23 Settlement talks deadlocked Agreement reached Steam-stripping process, whic removes VCM from PVC suspensio	Oct Aug Sept Sept Sept	1 8 15	13 23 14	Hardwicke, Jr.: Entrepreneur gets a kic out of developing new processes Harima Chemical Co.—Rosin and nave stores outlook Harmon Colors Corp.—Rhinechem Corp acquires Allied's organic pigment operations at Haledon, N.J.; incorporated as Harmon Colors Corp. Hayashibara Biochemical Laboratories—Starch-to-plastic route commercialize in Japan Helium Breeder Associates Inc.—Gas	Aug Oct S Sept	27	2
Electric passenger car project Sept 29-20 N Fluidized-bed combustion test N Fluidized-bed combustion test N Fluidized-bed combustion test N Fluidized-bed combustion to the coverage charged: Supreme Court to decide case Membrane, ultrathin, may cut natural gas bills N Merger acquisition of Utah International fails to get Justice okay Justice Dept. won't block merger Merger approved R PCBs Capacitor plants will use activated carbon to meet EPA's new standards	Dec July Aug Oct Dec	25 8 28 4 13	20 28 14 26	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundation Payoffs: additional questionable pay ments reported Rubber workers strike July 7-21, Jul 14-23, Aug 11-16, Aug 18-13, Aug 25-23 Settlement talks deadlocked Agreement reached Steam-stripping process, which removes VCM from PVC suspension resins licensing Goodrich, B.F. Europe see International	Oct Aug Sept Sept Aug Aug Aug Aug	1 8	14 13 23	Hardwicke, Jr.: Entrepreneur gets a kic out of developing new processes Harima Chemical Co.—Rosin and nave stores outlook Harmon Colors Corp.—Rhinechem Corp acquires Allied's organic pigment operations at Haledon, N.J.; incorporated as Harmon Colors Corp. Hayashibara Biochemical Laboratories—Starch-to-plastic route commercialize in Japan Helium Breeder Associates Inc.—Gas cooled breeder reactor by late '80s is thaim.	Aug Il Oct S Sept dd Oct	27	2
Electric passenger car project Sept 29-20 . Fluidized-bed combustion test . N Fluidized-bed combustion test . N Insurance program discriminates against women by omitting pregnancy from coverage charged: Supreme Court to decide case . N Merger acquisition of Utah International fails to get Justice okay . Justice Dept. won't block merger . Merger approved . R PCBs . Capacitor plants will use activated carbon to meet EPA's new standards	Dec July Aug Oct Dec	25 8 28 4 13 22	20 28 14 26 21	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundation Payoffs: additional questionable pay ments reported Rubber workers strike July 7-21, Jul 14-23, Aug 11-16, Aug 18-13, Aug 25-23 Settlement talks deadlocked Agreement reached Steam-stripping process, which removes VCM from PVC suspension resins licensing Goodrich, B.F. Europe see International B.F. Goodrich-Europe, BV	Oct Aug Sept Sept Sept Aug Aug	1 8 15	14 13 23 14 35	Hardwicke, Jr.: Entrepreneur gets a kic out of developing new processes Harima Chemical Co.—Rosin and nave stores outlook Harmon Colors Corp.—Rhinechem Corp acquires Allied's organic pigment operations at Haledon, N.J.; incorporated as Harmon Colors Corp. Hayashibara Biochemical Laboratories—Starch-to-plastic route commercialize in Japan Helium Breeder Associates Inc.—Gas cooled breeder reactor by late '80s is thaim. Henkel—Zeolite detergent as replacemer for phosphate	Aug Oct S Sept dd Oct N Oct N Nov	27 29 13	7
Electric passenger car project Sept 29-20 . Fluidized-bed combustion test . N Fluidized-bed combustion test . N Insurance program discriminates against women by omitting pregnancy from coverage charged: Supreme Court to decide case . N Membrane, ultrathin, may cut natural gas bills . N Merger acquisition of Utah International fails to get Justice okay . Justice Dept. won't block merger . Merger approved . R PCBs . Capacitor plants will use activated carbon to meet EPA's new standards	Dec July Aug Oct Dec Aug	25 8 28 4 13 22	20 28 14 26 21	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundation Payoffs: additional questionable pay ments reported 11-16, Aug 18-13, Aug 25-23 Settlement alask deadlocked Agreement reached Steam-stripping process, which removes VCM from PVC suspension resins licensing	Oct Aug Sept Sept Sept Aug Aug Dec Sept	4 1 8 15 11	14 13 23 14 35	Hardwicke, Jr.: Entrepreneur gets a kic out of developing new processes Harima Chemical Co.—Rosin and nave stores outlook Harmon Colors Corp.—Rhinechem Corp acquires Allied's organic pigment operations at Haledon, N.J.; incorporated as Harmon Colors Corp. Hayashibara Biochemical Laboratories—Starch-to-plastic route commercialize in Japan Helium Breeder Associates Inc.—Gas cooled breeder reactor by late '80s is thaim. Henkel—Zeolite detergent as replacemer for phosphate Hercofina—New worldwide terephthalate venture	Aug Oct Sept N Oct N Nov N Dec	27 29 13 24 8	7 7 1
Electric passenger car project Sept 29-20 Netwidized-bed combustion test Network Netwo	Dec July Aug Oct Dec Aug	25 8 28 4 13 22	20 28 14 26 21	Netherlands' government buys 49% of International B.F. Goodrich Europe additional 2% sold to a Dutch foundation . Payoffs: additional questionable pay ments reported . Rubber workers strike July 7-21, Jul 14-23, Aug 11-16, Aug 18-13, Aug 25-23 . Settlement talks deadlocked . Agreement reached . Steam-stripping process, which removes VCM from PVC suspension resins licensing . Goodrich, B.F. Europe see International B.F. Goodrich-Europe, BV Goodyear Tire & Rubber—Blimps: heavy lift airship to be tested Dec 8-19	Oct Aug Sept Sept Sept Aug	4 1 8 15	14 13 23 14 35	Hardwicke, Jr.: Entrepreneur gets a kic out of developing new processes Harima Chemical Co.—Rosin and naw stores outlook Harmon Colors Corp.—Rhinechem Corp acquires Allied's organic pigment operations at Haledon, N.J.; incorporated as Harmon Colors Corp. Hayashibara Biochemical Laboratories—Starch-to-plastic route commercialize in Japan. Helium Breeder Associates inc.—Gas cooled breeder reactor by late '80s is the aim. Henkel—Zeolite detergent as replacement for phosphate.	Aug Oct Sept d N Oct e N Nov nt N Dec s Aug R Aug N Sept	27 29 13 24 8 11 25	2

Hercules and American Petrofina joint				Authorities seek to evaluate long-term				Potash: IMC charged with "combination			
venture-Duard H. Little: Trou-				health effects of accident	Aug	-11	13	and conspiracy" to restrain trade in		-	
bleshooting Texan takes on his toughest assignment	Oct	27	60	Seveso may be razed as result of toxic chemical contamination	Aug	18	14	potash from '69 to '74	July	7	22
Hercules Inc.—Brown at security analyst				Ideal Basic Industries—FBC test	Sept	22	26	ble)	Aug	11	15
Canadian polypropylene plant delayed	Nov	24	24	Idesa—Mexican petrochemical pact N Illinois Coal Gasification Group—ERDA	Dec	22	33	Smith & Brook's price-fixing suit against US potash producers	July	21	20
by electricians strike N	Sept	15	21	seeks design bids for two coal gasifica-				Southeast Asian fertilizer projects to get			
Correction	Aug	11	16	tion demonstration plants	July	7	22	IMC technology	Nov	24	76
Nitrogen facilities at Hercules, Calif. to				Australians studied N	Aug	11	25	remain in N.Y. City R	Oct	27	25
be sold to Valley Nitrogen Producers	Oct	13	26	Imperial Chemical Industries—Drought causing water worries in Wales	Aug	18	28	Sales and earnings, third-quarter	Oct July	20	16
Polypropylene plant scheduled for	OCI			Dyestuffs intermediates plant in Scot-	Aug	10	2.0	International Telephone & Telegraph—	July	21	10
Tessenderlo, Belgium N	Dec	8	41	land, joint venture with Montedison	Sept	8	49	Corning Glass files suit to restrain ITT from infringing on its patents on optical			
Terephthalate joint venture to be called Hercofina	Aug	11	9	(U.K.)	Nov	17	30	wave guides	July	21	18
Hercofina N Joint venture approved R	Aug	25	25	Heart drug, Eraldin: claims for heart drug	A		20	Interprovincial Pipeline—Kitimat Pipe Line			
Joint venture starts up N Hercules and American Petrofina joint	Sept	8	17	effects paid N Nylon and polyester yarns and fiber	Aug	4	29	see under name Iran Nippon Petrochemical Co.—Phthalic			
venture	Oct	27	60	prices N	Nov	10	57	anhydride unit at Bandar Shapur	0	00	
Heurtey Industries—Contract to build Tunisian fertilizers complex R	July	7	42	Protein process mixes methanol and microbes	Nov	10	63	onstream	Oct	20	31
Hewlett-Packard—Bubble memories: Re-	,			Questional payments reported	Sept	15	15	Cadillac Fairview and SMBH & Z, Inc. R	Nov	17	22
searchers fabricate new synthetic crystals for bubble memory data				Ratak, new rodenticide will be effective against rats that have resistance to				Ishikawajima-Harima Heavy Industries— Floating kraft mill for Brazil	Nov	24	70
storage	Oct	6	41	warfarin and other anticoagulant com-				Pac-Es dust collector: New precipitator			
Microprocessor based instruments Himsley Engineering—Uranium recovery	Aug	18	25	Rubber chemicals operation to be	July	28	37	design will be tried N Isocianatos de Brasil S.A.—Partner with	Aug	4	40
from unclarified leach liquor is being				merged with Rhone-Poulenc N	July	14	25	Du Pont in Camacari project	July	14	43
pioneered	July	21	36	Sales and earnings, first half R Second quarter and first half '76 R	Sept	8 15	28 16	Itoh, C.—Aromatics plant for China N	Nov	17	27
plant and capacity additions planned . R	Dec	8	43	Nine months '76 N	Dec	8	42				
Hochberg, E.G. & Associates—"Textile Finishing Agents 1975-1980" study	Nov	10	78	Single-cell protein plant at the Bill-							
Hoechst Pharmaceuticals—Neomycin-B	INOV	10		ingham, Cleveland (England), com- plex planned N	Oct	6	31	•			
strain from Indian soil isolated N Hoffman-La Roche—German drugmakers	Aug	11	37	ICI Americas—International ethylene com-		0	12	ICC Corn Assembling plant for China N	Mari	17	27
feel pressure (chart)	Dec	15	25	plex to be built in Corpus Christi, Tex N Enzymes for conversion of glucose into		8	13	JGC Corp.—Aromatics plant for China . N Jacobs Engineering—Contract for For-	NOV	17	27
Icmesa see under name				fructose ICI-Solvay-Champlin—Ethylene joint project ICI/Uniroyal—Rubicon see under name	Nov	24	76	Jacobs Engineering—Contract for For- mica's Evandale, O., plant N Jamaica Bauxite Mining Ltd.—Joint mining	Nov	17	13
Roche Chemical Div. sole marketer of xylitol in the U.S.	Aug	18	31	projectEtnylene joint	Sept	29	44	and bauxite refining venture, JAMALCO			
xylitol in the U.S				ICI/Uniroyal—Rubicon see under name				formed N Oct 13-17	Dec	22	20
razepam hydrochloride) product Seveso, Italy, dioxin contamination N	Dec	22 17	46 27	ICI United States—Ambush for budworm control		3	18	JAMALCO—Joint mining and bauxite refining venture N Oct 13-17	Dec	22	20
Correction N	Nov	24	62	Chemicals for fire extinguishers	Dec	22	30	Japan Synthetic Rubber-Synthetic rub-	000		20
Xylitol sweetener joint venture	July	14	37	Glucose isomerase enzyme unit at Atlas	Nov	24	26	ber industry revival: surging auto output	Aug	11	27
(AIS) for rechecking the welds in				Point, Del	1404			is major factor	Aug		
pipeline segments lying under river beds	July	7	19	built in Corpus Christi, Tex N Polyester film prices N	Dec	8 28	13 32	ward: Stonehill at N.Y. security analysts	Sept	15	15
Homestake Mining—Metals outlook	Sept	8	22	Sorbitol producer	Aug	18	31	Jetco Chemical—Supplier of amines and	Sept	15	13
Honeywell Process Control Div.—Com- puter control study: ISA meeting	Oct	20	36	Stuart Pharmaceuticals Div. plans \$25-		25	17	derivatives	Nov	3	30
Process control equipment	Sept	29	29	million drug research expansion N Independent Refining Corp.—Acquisition	1	25	17	terials Div.'s Edgewater, N.J., gypsum			
Hooker Chemicals & Plastics—Chlorine		20		of Allied's refinery and related units N Indian Head—FMC completes sale of the	Aug	4	9	board plant shut down	Oct	6	20
prices	Dec	22	29	assets of its pump division	Oct	13	26	Johnson & Johnson—Executives (four)	Oct	6	20
soda evaporation plant at Niagara			40	Industrial Bio-Test-Syntex arthritis drug				killed in plane crash			
Falls, N.Y	Nov	3	18	Naprosyn, faces FDA recall order N Industrias Monsanto Ltda.—Monsanto		18	10	(chart)	Dec	15	25
convert refuse into energy planned . R	Sept	1	18	thinks big in Brazil	Sept	15	24	no loss of seniority following maternity	_		
Mirex pesticide discharged into the Niagara River comes from Hooker,				Industrias Resistol—Mexican petro- chemical pact	Dec	22	33	Jon-Paul Perfumers Ltd.—Replica	Dec	8	20
says EPA: Mirex production stopped				PVC and polystyrene resins units N	July	21	29	perfumes market	Oct	20	29
in '67 R Niagara bonds to fund air and water	Sept	8	28	Industries Chimiques Voreppe—Stepar Chemical cash purchase of a majority	1			Jovan, Inc.—Musk oil was only the start for Jovan, now branching out into other			
pollution control programs R	Oct	20	20	interest	Aug	18	15	lines	July	7	28
Phthalic anhydride prices N Hoover Ball & Bearing Co.—PET bottles:	Sept	29	40	Ingsam—Mexican petrochemical pact N Inmont Corp.—Payoffs: questionable	V Dec	22	33	President Richard Meyer: The sweet smell of musk lured him from ad-			
Continental Group and HB&B plan to				foreign payments of \$7 million	Aug	11	14	vertising to selling perfumes	July	7	48
produce PE terephthalate bottles; Du Pont declares that it will take steps to				Poromeric Porvair Plus: new version . N	N Aug	25	40				
enforce its patents if they are infringed				Refocusing on basic businesses—inli	July	21	16	~			
upon	Oct	6	17	and coatings—paying off Toxicology testing	July	21	13	K			
PET bottles: PE terephthalate all-plastic bottles	Aug	25	41	Inspiration Consolidated Co.—Copper out look	Sept	8	22				
bottles N Houston Chemical—Contract for develop-			47	Instapak—Sealed Air acquires about 85%	6			KMS Fusion-Laser beams to produce fu-			
ment of solar energy systems R Houston Natural Gas—Liquid Carbonic	Dec	15	17	of the stock	V Oct	6	20	sion	Dec	15	32
Corp. see under name				genation work	Sept	1	33	outlook	Sept	8	21
Huber, J. M.—Synthetic zeolite plant planned	I Dec	- 1	9	Intercontinental Química, S.A Terephthalic acid and dimethyl tere	-				Aug	11	19
Hudson Pharmaceutical—Agrees to FTC				phthalate plant near Algeciras	R Oct	13	26	Celestite mining and strontium opera- tions in Nova Scotia will shut down . N	Sept	1	9
consent order prohibiting company from directing advertising for children's vi-				International B.F. Goodrich-Europe, BV- Dutch government officials and				Negotiations with Jamaica	Dec	22	20
tamin to juvenile audiences	Sept	15	14	Goodrich working on agreement that	at			Price policies scored	Oct	6	18
Hudson's Bay Oil & Gas—Kitimat Pipe Line see under name				would give government 49% stake in	n	28	22	Wendover, Utah, potash complex R	July	21	18
Huffington, Roy M. CoIndonesian LNG				subsidiary July 14-21	6 July	20	22	Restarts potlines, hiking capacity to 90% N	July	7	27
plant at Badak	Sept	8	51	interest; additional 2% sold to a Dutch	h	07	22	Sales and earnings, third-quarter	Oct	20	16
Humko Sheffield—Supplier of amines and derivatives	Nov	3	30	foundation	. Oct	27	23	Kaiser Cement & Gypsum—Condominium suit over asbestos names ceiling texture			
derivatives Hydrocarbon Research, Inc.—Ashland				memories: Researchers fabricate new	W			product K-spray	Sent	29	21
Synthetic Fuels' coal liquefaction plant at Catlettsburg, Ky., using H-Coal process,	1			synthetic crystals for bubble memor data storage	. Oct	6	41	Sells 46% interest in Ryukyu Cement Co.		21	0
groundbreaking	Dec	22	19	Josephson technology research	. Dec		44	to Ube Industries N Kao Soap—Philippines' coconut derivative		21	9
Process for recovering acetic acid from a				International Flavors & Fragrances—Ex plosion at aroma chemicals plant i	(-			unit	Dec	8	41
variety of waste water outlined at AIChE			-	Union Beach, N.J.	 July 	21	17	in Mitsubishi's ethylene plant N	Oct	13	49
meeting	Sept	8	53	International-Matex Tank Terminal—S Rose plant in New Orleans expansion	t. R Oct	20	20	Kawecki Bervico Industries-Metals out-			
				International Minerals & Chemical Corp	-	20	20	Molycorp readying tender offer N Aug	Sept	8	22
				Chemical Group: Caustic potash an potassium carbonate prices	d N Oct	27	28	4-9	Aug	11	16
				Latin-American Food Productio		61	20	Tender offer for 1 million shares N Molycorp acquires approximately	Aug	25	17
IDL AC—Agreement with KenoGard	Sept	29	27	Conference:				50%	Sept	22	14
IFP see French Petroleum Institute INA Corp.—Chemetron acquires two sub-				Prices, production problems get prim	0-4	00	20	in stags snipped for processing	Oct	6	13
					. UCT	20					
sidiaries	July 9	28	27	time at fertilizer parley Lenon says U.S. will bargain hard i	n	20	26	Tin slags shipped for processing abroad	Out	0	,,,
Icmesa—Trichlorophenol plant explosion causes evacuation of nearby residents.	l July	28	27 13	Lenon says U.S. will bargain hard in future multilateral trade negotian tions	n I-	20	26	Kazarian, Ben K. Co.—Landfill operator receives cannisters containing TCDD for experimental tests		15	13

Kellogg Overseas Corp.—Supervising				Life Science Products—Kepone: EPA				Melamine Chemicals, IncCharges			
engineering and construction for Indo-				believes fines will warn other cities to				Japan's Nissan Chemical with dumping	Mari	04	00
nesian units	Sept	8	51	enforce discharge permits more strin- gently	uly	7	21	Mennen-Aerosol makers search for sub-	Nov	24	26
Knowles to acquire Canadian sub-	0.1	40	00	Kepone plea bargain? Ju	uly	21 18	16		Sept	29	17
sidiary	Oct	13	26	Allied pleads no contest		25	14	Div.'s Fruit Fresh	Aug		47
spree	Sept	29	27 26	Kepone pesticide residues found in	ept	1	18	Chemical Div. is sorbitol producer	Aug Dec		31 25
PVC joint venture plant in Denmark N Kennecott Copper Co.—Copper outlook .	Aug Sept	18	22	Allied's employees acquitted of felony				German drugmakers feel pressure			
Peabody Coal divestiture: Kennecott in contempt of court?	Aug	11	14	conspiracy charges Si President Moore, Jr. pleads no	ept	8	23	(chart) Kelco division fermentation facility in	Dec	15	25
Peabody decision Texasgulf bows out	Sept	29	17	contest		22	14	Okmulgee, Okla. for xanthan and			
Texasgulf bows out	Oct	13 20	23		Oct Oct	6	18 23	Sarett, Lewis H. senior v-p: He followed	Sept	22	17
Peabody terms told	Dec	8	18	Repone nazard in blues	Oct	20	20	a straight line to the top in research	July	21	44
Phosphate mining	Dec Sept	29	16 27	Removal of Kepone from James River may be possible N N	Vov	10	20	Merck, E. (W. Germany)—Veterinary agent, Droncit, knocks out tapeworms in			
Kerr Glass Mfg. Co.—Canning lids market	Aug	29 25	47	Paying for Kepone N	Vov	17	19	all stages of development	Aug	18	31
Job discrimination charged in dispute over back pay for women; loss of				German company seeks partner to make Kepone N N	Vov	17	27	Merck Sharp & Dohme—Flu vaccine shortfall	Sept	15	15
federal contracts threatened	Sept	15	16	New Kepone suit N	Vov	24	26	More vaccine coming	Sept	22	14
Sex bias charged Kerr-McGee Corp.—Capital expenditures:	Dec	8	20	Lilly, Eli & Co.—Herbicide, Treflan triflu- ralin, production resumed S	Sept	29	18	cine coming	Sept	22	14
McGee and Kelly at N.Y. Society of Se-	0-4	07	21	Lindsay Light and Chemical—ERDA to sponsor study to determine the effects				Metallgesellschaft A.G.—Acquisiton of Story Chemical's physical assets possi-			
curity Analysts	Oct Nov	27	14	that thorium may have on the human				ble Methanol Chemie Nederland—Partner in	Dec	8	17
Ketchikan Pulp Co.—FMC anticipates				body using former employees S Liquid Air Corp. of North America—Air-	Sept	29	18	Methanol Chemie Nederland—Partner in methanol plant	Sept	29	27
probable shutdown of pulp mill in June '77	July	7	21	separation plant at Hamilton, Ont.,				Metro Containers-Kraftco to sell MC			
FMC has agreed to sell its 50% interest to Louisiana-Pacific	Nov	3	18	(fourth) planned N A Liquid Carbonic Corp.—Carbon dioxide	Aug	11	9	operations to Midland Glass R Metro Glass Div.—Surlyn coating	July Aug	28 25	27
Sale for \$46 million completed N Nov				projects planned here and abroad N	Oct	20	9	Metromation—Operator's console—ISA			
10-19 R Kewanee Industries—Ouzts, Johnie M.	Nov	10	29	Lithium Corp. of America—Dibutylmagne- sium, a new high-efficiency catalyst,				show	Oct	20	36
resigns; James T. Bolan, chairman,				making pilot-plant debut N J	July	14	17	F. president: His assignment—heat up sales of flame retardants	lashe	14	48
given the additional post of president Kimberly-Clark Corp.—Capital spending:	Dec	8	17	Little, Arthur D. Co.—Diagnostic chemicals are becoming big business for many CPI				Merger with Velsicol Chemical; resulting	July	14	40
Smith at N.Y. analysts meeting	Oct	27	21	companies	July Dec	21	31 40	Chemco	Nov	3	17
Kimberly, Wis., coated-paper mill sold to Midtec Paper	Aug	11	16	Litton Industries—Grants Pass, Ore., plant				Chemco Michigan's PBB study	Nov	10	31
Midtec Paper					Oct	20 27	18 23	Midland Glass Co.—Acquisition of Kraftco's Metro Containers operations R	July	28	27
asked	Dec	22	35	Lonza Inc.—Sorbitol producer /	Aug	18	31	Surlyn-coated bottles	Aug	25	41
Kline, C.H. & Co.—Friedman at CSMA meeting presents detergent-disinfectant				Lorenz Chemical—Council Bluffs, la.	Nov	3	30	Clark's coated-paper mill	Aug	11	16
markets	Dec	22 28	32 32	chemical plant destroyed by fire R I Lothar Miczka KG—One-component	Dec	1	18	Miles Laboratories Inc.—Debentures of-	Dec	22	21
Pulp and paper industry study	Dec	15	47	urethane foam for filling and sealing				fered R Over-the-counter pain relievers:FDA			
Schreiber reports on pesticides at CSMA meeting	Dec	22	32	gaps	Oct	13	77	label limits criticized	Nov	3 28	17
Kloeckner-Pentaplast-U.S. PVC film					Nov	24	19	Mission Corp.—Getty Oil to acquire the remaining stock R July 28-26 R	Nov	17	22
plant planned N U.S. sodium chlorate plant planned N	Nov	17 17	13 13	its 50% interest in Ketchikan Pulp R	Nov	3	18	Mississippi Chemical Corp.—Phosphate			
Knoll Pharmaceutical—50% owned by Schering	Sept	29	21	N Nov 10-19R	Nov	10	29	mining Mitre Corp.—FBC conference	Dec Sept	8	16 26
Koch Industries—Kitimat Pipe Line see	oupi			Louisville & Nashville Railroad—Environ-				Mitsubishi Chemical Industries—Bu- tadiene may be best route to butanediol			
under name Kodak Ltd.—Polaroid wins temporary in-				mentalists and railroads team up to bar waterway projects	Dec	15	10	N	Nov	24	75 39
junction in British high court restraining	l.			Lubrizol—Agreement to acquire Marine	Dec	8	25	Correction	Dec	-1	39
Kodak from manufacturing and selling its range of instant-picture cameras and				Dividend increase	Aug	4	16	trichloroethane plant N Iran: phthalic anhydride unit at Bandar	Sept	22	32
film in the U.K. Koppers—Phthalic anhydride prices N	Aug	18 29	13 40	Lummus Co.—ACHEMA first-time exhibi- tor, pushed LC-fining for upgrading fuels				Shapur onstream N		20	31
Stock split, two-for-one proposed F	Aug	4	16	in Western Europe	July	7	38	TPA route: experimental synthesis starts with toluene instead of the more			
Korea Nylon—Mitsui and Chemtes decrease shares	Aug	18	27	Kentucky H-Coal pilot plant	Dec	22	19	expensive paraxylene now used in	0	40	0.7
Korea Pacific Chemical—South Korear	1	24	26	Contract for Yo-Su petrochemical com- plex in South Korea N	Oct	27	27 -	most industrial processes	Oct	13	67
petrochemical complex contract F Korea Polyester—Mitsui and Chemter	(Lurgi Mineraloeltechnik-Barter deal with				trochemical complex may not be built. N	Sept	15	21
decrease shares	Aug	18	27	Australians studied N	Aug	11	25	Shares in Tong Hwa Synthetic Fiber decreased	Aug	18	27
mand shifts	July	14	22					Mitsubishi Gas Chemical—Toluene may be the raw material for polyester fibers in			
Kraftco Corp.—Metro Container glass	Dec	15	16	M				Japan	Aug	4	40
manufacturing operations to be sold to)	28	27					Mitsubishi International — Machinery to make Jentra sold to Compo Industries N		25	40
Midland Glass F Kronos-Titan—Titanium dioxide waste dis	-			M&T Chemicals-Aluminum tote bins to				Mitsubishi Petrochemical—Ethylene deri- vative products from Singapore plant to			
posal battle (table)	Dec	8	65	require \$200 deposit	July	21	18	be marketed		8	49
Ulysses, Kan	Aug	25	25	Complex of petrochemical plants with a				Process for DSM polypropylene plant. N Propylene from Kashima Oil for use in a	Dec	8	41
Kuraray—Fiber makers cutting production Kyowa Hakko Kogyo—Tissue culture re	Nov-	17	30	big refinery as the hub in Maine N Malcon Products—Radiator flushes: There	Aug	18	9	ethylene plant N	Oct	13	49
search		11	31	may be problems ahead as antifreeze life				Mitsubishi Rayon—Fiber makers cutting production	Nov	17	30
				Mallinckrodt—Acquires Perry Bros R	Nov	10	77 16	production	Aug	18	27
				lodine markets	Dec	21	24 31	decreased Mitsui Petrochemical Industries—Contract	Aug	10	21
				Mansfield Tire & Rubber-Ohio facilities				for Yo-Su petrochemical complex in South Korea	Oct	27	27
				may close as employees reject contract Rubber Workers agree to a new 3-yr	Oct	13	27	South Korea N Korean terephthalic acid plant planned N	Nov	24	62
La Porte-Titanium'dioxide waste disposa			05	contract	Oct	20	17	Pac-Es dust collector: New precipitator	1		
battle (table)	Dec	8	65	MAPCO—Desulfurization process runs into snags on road to commercialization	Sept	15	44	design will be tried N Shares in Korea Polyester and Korea	1	4	40
sale of nonreturnable 1-gal. HDPE mil	k	24	26	Marathon Oil—Tertiary oil recovery: Marathon gets nod from ERDA for joint				Nylon decreased	Aug	18	27
bottles	Aug		41	project N	Oct	13	18	ings: six months '76 R	Dec	8	43
Laves Chemie—Plant tissue culturing study	g Aug	11	31	Marine Colloids—Lubrizol's agreement for acquisition Aug 18-14	Dec	8	25	Mobay Corp.—Aniline market recovery has producers studying expansion plans	3		
Lawrence Livermore Laboratory—Militar	У			McGraw-Edison-Plans to halt all use of	Oct		24	(table)		11	23
satellites will provide ozone data ! Lea-Ronal, Inc.—Marketing small volume	S		43	PCBs by Nov. 1		13		Mobil Chemical Co.—Bid for ownership of	1		
of selected specialty chemicals Process for plating on plastics without	. Aug	11	21	Shell Chemical acetone plant N McKee Ingenieros, S.A. see under name	Sept	22	9	Irvine Co.	Nov	17	22 19
the use of palladium catalysts	. Aug	11	21	UC awards \$40 million in contracts to	001	10	17	H-Coal pilot plant in Kentucky Phosphates prices Plastics Div. plans PP packaging film	Nov	24	31
Lever Brothers—ICWU 13 week strike set tled	. July	14	23	McKee		13	17	plant at Shawnee, Okla	R Aug	4	16
Libbey-Owens-Ford—Sales and earnings third-quarter	. Oct			to be built in Spain	Oct	20	31	Mobil Oil—Cancer studies: seven cases o cancer (including two deaths) have beer	f		
Liberty Glass—Surlyn coating	. Aug			quarter	Oct	20	16	discovered among 129 employees a	ıt		
Liberty Mutual—Swine flu vaccine in surance	. Aug	11	13	Megadiamond Industries—Diamond noz- zle may cut spinneret wear N	July	14	29	Paulsboro, N.J., refinery who had beer exposed to PCBs	Sept	- 1	13

Offshore Atlantic lease bids N Saudi Arabia: Mobil, Saudi Arabia take first step toward petrochemical com-		25	17	Morton-Norwich Products—Tender offer for Canadian Salt shares canceled R UC acquires the domestic Simoniz	Sept	8	28	North Shore Gas—Illinois Coal Gasification Group see under name Northern Illinois Gas—Illinois Coal Gasifi-			
plex	Sept	1	25	products business N Murphy Oil—Kitimat Pipe Line see under name	Nov	10	19	cation Group see under name Northern Petrochemical—Antifreeze market: Back to hard sell	Oct	13	38
big projects	Oct	20	39	Mutual Citrus Products CoEver-fresh,		0.5	47	Northern Tier Pipeline Co.—Washington	A	10	9
Moleculon Research Corp.—Air-freshener system based on thin-film technology Molycorp, Inc.—Kawecki Berylco Indus-	July	28	37	ascorbic-citrus mixture	Aug	25 25	47 47	superport plans to be reconsidered N Northrup, King—Sandoz to purchase shares	Sept	18	21
tries: Moly makes tender offer N Aug 4- 9, R Aug 11-16N	Aug	25	17	N				Northwest Chemco—Formed by merger of Velsicol Chemical and Michigan			
Acquires approximately 50% of Kawecki	Sept	22	14					Northwest Industries Inc.—Michigan	Nov	3	17
Metals outlook Monongehela Power Co.—Fluidized-bed	Sept	8	22	NCR Corp.—Capsular Products Div.—en-				Chemical Corp. see under name Northwest Pipeline Corp.—Alcan Project			
combustion unit at Riversville, W.Va Monsanto Co.—Acrylonitrile prices N	Sept	22	24	capsulated liquid crystals	Nov	24	82	proposed for Alaska's North Slope	July	7	19
Analgesic production at Luling, La., planned		3	13	unit to search for oil, gas N	Sept	1	9	(map) Norton Co.—Acquires Novagard Corp R Warning on oils	Nov	17 20	22
Brazilian investment plans grow	Sept	15	24	NL Industries—Dutch Boy Paints Div. to be sold to ELT, Inc.	Dec	22	19	Nostrip Chemical Works-Supplier of			
Butane-based maleic anhydride	Oct	13	79	Litigation concerning the sale of zinc by Bunker Hill to NL terminated R Merger agreement with Rucker Co R	Aug Sept	11 15	16 16	amines and derivatives Noury Chemical—Percarbonates market Novagard Corp.—Acquired by Norton	Oct	27	30 42
total \$3 hillion	Oct Aug	13 25	22	Titanium dioxide pigment plant at Lev- erkusen, W. Germany R Aug 11-16				Corp	Nov	17	22
Cycle-Safe bottles					Aug	18	9	'Hot line' helps him carve out growing			
European plant investments boosted . N	Nov Sept	17 29	34	Titanium dioxide plant in Sayreville, N.J. closed because of strike N	Sept	22	19	share of U.S. Markets	Nov	24	92
Fiber makers bank on upturn in '77 (chart & table)	Nov	3	34	Titanium dioxide plant in the U.S. plan- ned	Aug	18	9	Montedison polypropylene tech-	Sept	29	25
(chart & table)	Nov	10	72	N M Uranium, Inc.—Atlantic Richfield ura- nium properties and plant purchased . N	Dec	15	9	Nuclear Dynamics—N.D. Petroleum Corp.	Sept	1	9
Mexican peso float will reduce earnings	Aug Sept	11 29	37 18	NAMCO (North American Mining Consultants, Inc.)—Consortium will	000	,,,		Nutrilite Products-Dihydrochalcones,	Sept		9
'76 forecast from Hanley and Kerley at				bring German coal mining know-how			00	synthetic sweeteners, derived from citrus peels look promising	Nov	24	68
N.Y. Soc. of Security Analysts	July	28 25	26 41	to U.S	Aug	18	23	Nylon de Mexico—Mexican petrochemical pact		22	33
Nylon prices	Dec	8	28	carbons process N National Distillers and Chemical—Syngas	Dec	15	40	pact	Dec	22	33
sold to Dome Petroleum R Olefins complex at Chocolate Bayou,	July	7	24	Co. see under name U.S.I. Chemicals Div. aiming at 15%/							
Tex. Payoffs: Questionable payment dis-	Sept	29	44	year growth	July	7	17	0			
closed	Nov	10	27	purchaser of ethylene	Sept	29	47				
Phosphorus pentasulfide capacity boost	Nov	24	90	National Helium Corp.—Helium breach-of- contract suit: awards to NHC and Cities				OVO CORR. ERRA academ too bids for			
at Anniston, Ala. planned N Brazilian facilities planned N Sept 15-		15	9	Service Helex	Nov	24	25	OKC CORP.—ERDA ponders two bids for coal gasification joint venture N	Nov	17	14
Polyamides Intermediates Ltd., 50-50	Sept	15	24	Natural gas exports: no new commit-	Sept	8	23	Occidental Oil Shale-ERDA negotiations with four companies for in situ shale oil			
venture in adiponitrile and hexamethy- lenediamine plant at Teesside N	Sept	8	49	ments N National Lead Co.—Titanium dioxide	Oct	29	31	recovery technology research N Occidental Petroleum—Fertilizer agree-	July	7	32
PCBs: Alabama and Georgia residents file class action suit as a result of the				waste disposal battle (table)	Dec	8	65	ment signed with Soviet Union Hooker Chemical & Plastics Div. see	Dec	1	15
closing of portions of rivers near Rome, Ga.	Sept	29	18	rochemical sales are soaring N Phthalic anhydride unit onstream N	Sept	15	21	iran-Oxy deal called off	Sept	8	23
PCBs: Inhouse health study of workers exposed to PCBs	Sept	8	26	National Potash—Charged with "combina- tion and conspiracy" to restrain trade in				Phosphate expansion at Swift Creek mine	Dec	8	15
PVC reactor cleaning know-how licens-	Oct	13	24	potash from '69 to '74	July	7	22	Offshore Power Systems, Inc.—Floating nuclear plants: hearing may be delayed			
Phthalic anhydride prices N	Aug Sept	11 29	35 40	melt adhesive prices N National Adhesives Div. plans price	Nov	24	31		Dec	22	14
Sales and earnings	July	28	26	increase of acrylic solution pressure- sensitive adhesives	Dec	1	18	The Oil Shale Corp.—Changing name to Tosco Corp. to be voted on N	July	14	17
ington Univ. medical school in St.	Aug	4	40	National Steel Corp.—Steel price hikes	Dec .	8	17	Olin Corp.—Chlorine prices Sept 1-14 . N Liquid sodium hydrosulfite plant at	Dec	22	29
Louis planned N Toxicological testing	July	21	13	draw criticism	Sept	8	22	Charleston, Tenn., complex R Sales and earnings, second-quarter	Aug	18	15 17
Wales: Drought causing water worries Wales water woes ease Monsanto Enviro-Chem Systems—	Aug Sept	18 22	28 16	Natural Gas Pipeline Co. of America— Conoco Coal Development Co. see				Third-quarter Sodium chlorate plant at Niagara Falls,	Oct	20	16
Contract for Cyanamid sulfuric acid				under name Neches Butane Products—Rice and Hoyle				N.Y	Nov Sept	24	26 55
plant in Westwego, La	July	7	22	at ISA meeting explained modernization at butadiene plant	Oct	20	36	Olinkraft Inc.—Capital investment: Collet at			
chloric acid prices	Oct	20	25	Nepera Chemical—Acquired by Schering	Sept	29	21	N.Y. security analysts	Nov	17	20
German coal mining know-how to U.S.		18	23	New Jersey Zinc—Zinc outlook	Sept	8 21	22	packaging and dyeing plant at Tus- caloosa, Ala., to close	Dec	15	15
Montedison-Broadening its base in U.K.				Zinc oxide prices	July Sept	8	22	Onyx Chemical—Supplier of amines and derivatives		3	30
chemical ventures	Sept	8	49	Kennecott-Peabody divestiture Aug 11- 14, Sept 29-17, Oct 13-23, R Oct 20-				Ortloff Corp.—Shipboard plant to process	1404	0	50
plant at Montedison's Priolo, Sicily, complex	Oct	6	31	Sales and earnings: Walsh at	Dec	8	18	crude oil may be moored off Santa Bar- bara, Calif N	Dec	15	39
Government financing that will not shift control of company to state sought	Dec	8	43	Philadelphia security analysts meet- ing	Nov	24	24	Otsuka Pharmaceutical—Manta insect growth regulator as treatment for silk-			
Joint venture polypropylene unit near Brussels		8	41	Niigata Engineering—Contract for acrylonitrile plant at Ulsan, S. Korea R		14	21	worms to be marketed R Overseas Private Investment Corp.—Ana-	Sept	29	21
Melamine market and expansions	Nov	10	58	Nippon Zeon of America, IncAsano,		14	21	conda's Chiliean copper mines expro- priation in '71: arbitration ruling that OPI			
Novamont to use new polypropylene technology	Sept	29	25	Masayoshi: He recovered handsomely from an early setback	Nov	3	29	is liable for the losses upheld R Owatonna Tool Co.—FBC test	July Sept	28 22	27 26
Polyolefin paper Sales, first-half N State control possible N	Sept Aug	15	43 29	Nissan Chemical Industries—Melamine capacity	Nov	10	58	Owens-Corning Fiberglas-FRP for the			
State control possible N Titanium dioxide waste disposal battle	Aug	18	26	Melamine Chemicals charges NCI with dumping melamine in U.S. markets		24	26	marine market	Sept	29	20
(table)	Dec	8	65	Nissan Motor—Auto sales boost synthetic rubber market	Aug	11	27	swap shares of Fiberglas for shares of its common stock	Nov	17	19
stuffs intermediates joint venture with ICI		8	49	Nissho-lwai—Iran: phthalic anhydride unit at Bandar Shapur onstream N	1	20	31	Reactivates construction of plant in Amarillo, Tex. to make glass-fiber-			
Montefibre-Fiber makers cutting produc-			30	Nitrex-Common Market antitrusters look	(reinforced materials R	Sept	22	17
Fiber troubles worsen	Nov Nov	17	27	at fertilizer markets	1	21	29	Reinforced plastic membrane will contain LNG in ships	Oct	13	71
Montefibre (U.K.) Ltd.—Polyamides Inter- mediates Ltd., 50-50 venture in adiponit- rile and hexamethylenediamine plant at				Company set up in United Arab Emirates	Sept	29	27	Sales and earnings, third-quarter Owens-Illinois—Divestiture: offers to swap shares of Owens-Corning Fiberglas for		2	16
Teesside	Sept	8	49	pesticides: chlorodimeform insecticide recalled)	29	18	shares of its common stock Foamed polystyrene jacketed bottles	Nov	17 25	19 41
the use of DDT in six Colorado counties where rodent fleas are carrying bubonic				Norelco—Smoke detectors market	Dec	22	30	Job discrimination charged in dispute over back pay for women; loss of		20	41
plaque	July	7	25	may go to work in urea plant	July	28	28	federal contracts threatened	Sept	15	16
Morrison-Knudsen—European consortium buys 50% interest in Elk River coking	3	40	47	PVC joint venture plant in Denmark	1	18	26	Libbey Glass Div. charged with sex bias Oy Karl Lark AB—Toothpaste containing)	8	20
coal properties in B.C., Canada N	Oct	13	17	containing up to 12.5% protein N	Oct	20	39	xylitol called Ksylitoli Vademecum fluor	July	14	37

D				Petroleos del Mediterraneo-Calcinated				Pullman Inc.—Pullman Kellogg Div.: Brazi-			
				coke plant construction approval sought	Dec	8	43	lian fertilizer complexes N Pullman Kellogg Div: Contract for	Dec	8	14
				Petroleos Mexicanos—Mexico's chemical buildup is coming on strong N	July	21	29	Exxon's olefins complex N Pullman Kellogg Div.: Jet fuel can be	Nov	24	19
PPD Corp.—Anta Corp. may acquire PPD in cash deal	July	14	17	Mexico's petrochemical industry: New		22	33	made from coal	Sept		40 15
PPG Industries—Antifreeze market: Back	Oct	13	38	Petrolite Corp.—Bareco Div.: Market test-	Dec	22	33	Pullman Kellogg Div.: tax credit	Sept	29	15
Antifreeze Zerex: Du Pont agrees to			25	ing of unrefined, light green wax in the form of flakes	Dec	22	39	Q			
Certain-teed agrees to shed Shelbyville,	Aug	25	25	form of flakes	Sept	15	21	Annual Control of the Land			
Ind. glass-fiber insulation plant it acquired from PPG in '73	Sept	8	28	Petroperu—Talara carbon black plant ex-				Quaker Oats—Sales in '75 and first-half '76	Sont	Q	28
Chemical Div. v-p and general manager Vincent A. Sarni: He set up a manage-				pansion	July	14	21	Questor Corp. —Nonnoble metal three-way		0	
ment team that can work without him	Dec	22	52	technology	Oct	13	79	catalyst	Sept	8	76
Chlorine prices N Houston Chemical Div.—lead-trapping	Dec	22	29	trochemical plan may soon be signed				becomes a major shareholder N	Aug	4	9
system designed to be used with a nonnoble metal three-way catalyst	Sept	8	76	into law	July	28	40	R			
Hydrogen peroxide markets (table)	Sept	1	23	symposium	Nov	24	72	n			
lodine joint project with Amoco at Wood- ward, Okla.	Dec.	1	23	(chart)	Dec	15	25	RP Industries—Ozone generation system			
Mt. Vernon, O., sheet-glass manufactur-	Oct	27	25	Sorbitol producer Phelps Dodge—Copper outlook	Aug Sept	18	31	will be tested under EPA grant N Radian Corp.—Hydrocarbon emissions	Nov	24	75
Percarbonate market	Oct	27	42	Copper prices N Sex bias charged	Oct Dec	13	37 20		Oct	27	44
	Sept	15	34 17	Philadelphia Quartz—Sodium silicate plas-				control in smelters N	Nov	10	61
Third quarter	Oct	20	16	tics filler plant in Augusta, Ga R Philippine National Oil Co.—Petrochemical	Oct	13	26	Reheis Chemical—Aluminum salts for anti- perspirants	Dec	8	29
Pace Co.—Offshore plants feasibility	Nov	24	55 70	complex seeks foreign investors N Phillips Fibers—Fiber makers bank on	Sept	29	25	Republic Steel—Coke battery in Cleveland			
Pak-Arab Refinery Ltd.—Refinery near Multan, Pakistan	Oct	27	25	upturn in '77 (chart & table)	Nov	3	34	startup delayed by coke-oven emissions problems	Oct	20	18
Panhandle Eastern Pipe Line—Conoco Coal Development Co. see under name				Phillips Petroleum—Ethylene unit at Sweeny, Tex	Sept	29	44	Layoffs stemming from strikes at com- pany-owned coal mines: Supreme			
Parke-Davis & Co.—Benylin cough syrup:	Dan	15	10	European chemical operations affected by U.S. controls on crude oil and				Court will decide whether a state may			
Recall suppressed	Dec	15	16	feedstock prices N	July	14	25	refuse to pay unemployment com- pensation	Oct	13	24
control pill packets to detail risks and benefits for users	Dec	15	19	Indicted on charges stemming from secret slush fund N	Sept	8	18	Research Organic/Inorganic Chemical— Dihydrochalcones, synthetic sweet-			
"Swine Flu": More vaccine coming	Sept	22 20	14	Phosphate mining TPA: PP and Rhone develop new	Dec	8	16 .	eners, derived from citrus peels look	Nov	24	68
Some forego flu shots Parker, Robert Research Corp.—Liquid	Oct		17	process	Oct	6	36	promising	1404	24	00
crystal busin ass	Nov	24	82	toluene instead of the more expen-				permit denial by two Minnesota environ- mental agencies	Nov	10	27
meeting discusses wood as source of	Dan	8	57	sive p-xylene now used in most in- dustrial processes	Oct	13	67	Resinor—Polystyrene joint venture of Plas- ticos Monsanto and CBE in Brazil	Sept	15	24
fuels and chemicals	Dec			Phosrock-Turbeville at Latin-American				Revion—Aerosol makers search for sub-			
unit	Dec	8	41	Food Production Problems Conference Pigment Chemie—Titanium dioxide waste	Oct	20	26	stitutes for fluorocarbons	Sept	29	17
ture: Kennecott in contempt of court? Peabody decision	Aug Sept	11 29	14 17	disposal battle (table)	Dec	8	65	upped Ń Aluminum outlook	July Sept	7	27
Texasguit bows out	Oct	13	23	Pilkington Brothers—Japanese asbestos sheet process is offered in Western				Aluminum price hikes draw criticism	Dec	8	17
Kennecott plans to sell Peabody to a consortium	Oct	20	20	Europe N Pittston Co.—Oil refinery project at	Oct	13	71	Australia: Reynolds and Alcoa to form a consortium of international companies			
Peabody terms told	Dec	8	18	Eastport, Me.: Canadian opposition Plagon S.A.—Industrias Monsanto sub-	Dec	15	17	to establish an alumina refinery R Negotiations with Jamaica	Dec Dec	15 22	17 20
build alumina plant near Odessa, on the				sidiary	Sept	15	24	Price policies scored	Oct	6	18
French chemical makers suffered losses	July	14	21	Plasticos Monsanto—Monsanto thinks big in Brazil	Sept	15	24	Reynolds, R.J. Industries—Payoffs: ques- tionable foreign payments and domestic			
during '75	July Aug	7	40	in Brazil	Nov	17	27	political contributions disclosed Reynolds, Smith and Hills—CTIU unit at	Sept	22	16
Pennwalt Corp.—Crockett, Jean A., Penn-	Aug	"	9	Polaroid—Eastman Kodak charged with infringement of 10 Tanadium photo				Morgantown, W.Va	Sept	22	24
walt Board member: She welcomes the chance to test business in practice	Aug	4	48	wins temporary injunction in a British	Oct	6	20	ReZearch Inc.—Specialty, high-profit markets for ground peanut shells, in			
Ionamin: company scheduled to testify about allegations that it has promoted				high court restraining Kodak Ltd. from manufacturing and selling its range of				animal feeds and as diluents	Nov	17	46
excessive use of the drug N	Nov	17	14	instant-picture cameras and film in the				bring German coal mining know-how to		40	
Lucidol's new continuous process reduces hazards of making percarbo-				Polifil S.A.—PP fiber maker's formula for	Aug	18	13	U.S N Rheinische Braunkohlenwerke—Barter	Aug	18	23
nate	Oct	27	42	success: stay close to customer	Oct	6	29	deal with Australians studied N Rheinbraun-Consulting see under name	Aug	11	25
Vondelingenplaat expansion R	Dec	15	17	Polimex-Cekop—Caustic evaporator system from Whiting Co.	July	7	24	Rhinechem Corp.—Acquires Allied's or-			
Mexican peso devaluation will reduce earnings Obesity drugs: Senate hearings on con-	Sept	29	18	system from Whiting Co				ganic pigments operations at Haledon, N.J.; incorporated as Harmon Colors			
Obesity drugs: Senate hearings on con- troversial antiobesity drugs; Pennwalt				rile and hexamethylenediamine plant at Teesside	Sept	8	49	Corp	Sept	29	21
tells its side of dispute over am- phetamine-type drugs	May	24	23	Polymer Building Systems—U.S. plant to use the urethane process from Rubicon	July	7	29	sidelined		10	57 30
Sales and earnings: Drake at St. Louis fi-	Nov			Polymer Corp. (Polysar)—Rebates made in the early 1970s to European cus-				French chemical makers suffered losses	Nov	17	
nancial analysts meeting	Nov	24	24	tomers disclosed	Dec	8	42	during '75	July	7	40
Sodium chlorate solution plant at Tacoma, Wash., complex planned	Nov	10	19	lens	July	28	44	gum venture	Sept	22	17
Peoples Gas Light & Coke—Illinois Coal	1404	10	13	Pope Evans and Robbins—Rivesville FBC	Sept	22	24	power plant	Oct	6	35
Pepsi Co.—PE terephthalate all-plastic				Potash Co. of America—Charged with				Goodyear to install "microsuspension" polymerization at Niagara Falls, N.Y.			
(PET) bottles	Aug	25 6	41 17	"combination and conspiracy" to restrain trade in potash from '69 to '74		7	22	plant	Sept	15	36
Perkin-Elmer—Chip-based instruments	Aug	18	25	Potash prices N	July	21	20	phasis on firm's international busi-	-	45	00
Mass spectrometer for Viking I	July	28	22 16	Smith & Brook's price-fixing suit against U.S. potash producers	July	21	20	Process for bisphenol plant in Russia . N	Dec Sept	15 15	26 21
Pertamina—Indonesia aims at fertilizer in- dependence with big urea, ammonia				Power Reactor & Nuclear Fuel Develop- ment Corp.—Experimental plant				Rubber chemicals operation to be merged with ICI	July	14	25
plants	Sept	8	51	converts uranium tetrafluoride into ura-		04	25	TDI exposure incidents investigated N	Sept	29	34
Pertwee Industrial, Ltd.—'mini BULK, woven PP container	Oct	27	34	nium hexafluoride	NOA	24	75	TPA: Phillips, Rhone develop new TPA process	Oct	6	36
Petrobras Quimica (Petroquisa)—Brazilian investment in chemical and pe-				filed	Nov	3	18	Experimental synthesis starts with toluene instead of the more expen-			
trochemical ventures this year will be a		20	40	growth	Aug	18	18	sive p-xylene now used in most in-		12	67
minimum of \$1.3 billion R Camacari \$2-billion petrochemical com-			40	perspirant markets	Dec	8	29	U.S.S.R. in \$1.2-billion two-way trade		13	67
plex off to a smooth start Petrobas Quimica Fertilizantes S.A.—	July	14	43	Harness reports to security analysts in	Nov	24	24	deal N Richardson Company—Polymeric		1	25
Brazil: Bahia operation	July	14	43	Morgens: Multinationals provide 'eco-				Systems Div. enters acrylic compound		10	72
Petrocel S.A.—Mexican petrochemical pact	Dec	22	33	nomic integration' in fragmented world	Nov	24	63	market Risdon Mfg. Co.—Air-freshner system	1		
Petrofertil—Brazil: Bahia operation Petrofina—Joint venture polypropylene	July	14	43	Zeolites may be newest substitute fo phosphate in detergents N Dec 1-9, N	P Dec	8	13	based on thin-film technology Robertshaw Controls—Columbus, O.	July	28	37
venture near Brussels N Petrogal—Aromatics complex near	l Dec	8	41	Public Service Electric & Gas—Floating nuclear plants: hearing may be delayed	3			plant has outbreaks of unexplained ill- nesses		20	18
Oporto	Nov	24	62	nuclear plants. Hearing may be delayed	N Dec	22	14	Mysteries linger on		27	23

Robinson-Wagner—Aluminum salts for	D	0	20	Salzgitter Industriebau—Barter deal with	Aum	11	25	Wendt, Henry new president: Success in	Ont	6	46
antiperspirants	Dec	8	29	Australians studied	Aug Sept	8	49	Snamprogetti-Italian manufacturers	Oct	6	46
cost of PVC resins for plastic pipe N Chemische Werke Huels AG to buy	July	14	29	Samsung Petrochemical—Terephthalic acid plant near Kyungsang Namdo,				challenge gas price hike N MTBE may help refiners maintain octane	Oct	20	31
stock	Dec	1	18	South Korea N	Nov	24	62	while phasing out lead N	Dec	1	39
50% interest in PVC producer Shintech sold to Shin-Etsu Chemical N	July	21	9	Sandoz-German drugmakers feel pressure (chart)	Dec	15	25	Soc. des Engrais Phosphates et Azotes— Contract for fertilizer and phosphoric			
Negotiating for purchase of Allied's				Northrup, King shares to be purchased.	Sept	29	21	acid complex at Gabes, Tunisia, goes to		-	40
Baton Rouge, La., complex N PVC markets (tables)	July Sept	21	9	Sales, first-half	Aug	3	29 18	Heurtey Industries	July	1	42
VCM plant may be bought from Allied	Sept	15	34	Schade, Willard F. & Associates-Acti-				Olefins, new company set up with UC Soc. Industrielle Belge des Petroles,	Sept	29	44
Rochester Instrument Systems—Alarm reporting system—ISA show	Oct	20	36	vated-carbon waste treatment plant at Rocky River, O. passes test but has				N.V.—Antwerp propylene recovery unit			
Rocketdyne—Flash hydrogenation work .	Sept	1	33	problems	Dec	8	48	contract goes to Foster Wheeler Italiana	Dec .	15	9
Rockwell International—Atomics Interna- tional Div.—aqueous carbonate				Novalov epoxy powder business from				Soc. Nationale des Petroles d'Aquitaine—	Dec .	15	9
process: Sulfur-from-stack-gas will get	Luly	14	29	Amicon Corp	Aug	18 29	15	Soc. Nationale Elf-Aquitaine formed: French oil merger to strengthen			
\$22-million test	July			German drugmakers feel pressure				chemicals	July	21	29
electric cars (table)	Dec	1	31	(chart)	Dec	15	25	chemicals	Aug	11	20
cate new synthetic crystals for bubble				technology	Oct	13	79	merger to strengthen chemicals N	July	21	29
ERDA contract for molten-salt coal	Oct	6	41	Process for Ashland's Neal, W.Va. maleic anhydride plant N	Sept	29	33	Soft lens, Inc.—Hydrogel soft-contact lens, called Hydrocurve	July	28	44
gasification N	Aug	18	10	Scott Paper-Mexican peso float will				called Hydrocurve Sohio Transportation—Long Beach, Calif,	July		
Liquid crystal displays	Nov	24	81	reduce earnings	Sept	29	18	deep-water petroleum terminal lease sought	Oct	20	9
Associated Laboratories expands posi-				waste treatment system would treat				Marine terminal project will affect air			
tion in the diagnostic services market Fiber business: Gregory Jr reports to	July	21	31	wastes from Scott plant R Payoffs: Affiliates paid out illegal sums	Nov	24	26	quality N Soltex—International ethylene complex to	Oct	27	17
Fiber business: Gregory, Jr. reports to security analysts, "Mum's the word				totaling \$187,000 Stock offering R Sealed Air—Acquires about 83% of the	July	21	17	be built in Corpus Christi, Tex N	Dec	8	13
about possible buyer for firm's fiber business"	Nov	24	24	Stock offering	Aug	11	16	Solvay—Polyoletin paper	Sept	15	43
Fiber disposition proposed	Nov	17	19	Slock of Instapak	Oct	6	20	Sasol I gasoline and chemicals from coal		_	
Fiber makers bank on upturn in '77 (chart & table)	Nov	3	34	Searle, G.D.—FDA to convene 'science court' to review research data on as-				operation: Cost picture improves N Southern California Edison—Aqueous car-	July	7	32
Mexican peso devaluation will reduce				partame	Dec	1	17	bonate process: Sulfur-from-stack-gas			-
earnings	Sept	29	18	Sears Roebuck & Co.—Deegan at Grayson Associates seminar	Dec	8	20	will get \$22-million test N Southern Shortenings Inc.—Eastman	July	14	29
available	Dec	1	18	Smike detector, Early One	Dec	22	30	Kodak's patent suit N	July	21	9
Schneider discusses surfactants at CSMA meeting	Dec	22	31	Sebring-Vanquard Co.—CitiCar Sharp Corp.—Liquid crystal displays	Dec	24	31 81	Southwest Research Institute—Sulfur coat- ings for construction materials	Aug	11	20
CSMA meeting				Sheby-Kemi B.V.—Tall-oil fractionating in-				Speichim-Bisphenol plant to be built in		15	
ture with Cyanamid to manufacture and market cast acrylic sheet	July	7	29	Shell Australia—PP plant to be built at	Oct	27	34	Russia	Sept	15	21
Rola-Jensen-Punxsutawney, Pa., plant				Geelong Oil retinery N	July	28	42	pone N	Nov	17	27
plagued by illnesses	Oct	20 27	18 23	Shell Canada—Sulfur-paving process dubbed Thermopave	Aug	11	20	Squibb—Contributions: \$1.9 million paid in questionable sums abroad	Aug	11	14
Rorer-Amchem-Acquisitions of Cry-				Shell Chemical—Acetone plant within Shell	rug		20	German drugmakers feel pressure	Dec	15	25
omedics Inc. and Dooner Laboratories Inc	Nov	10	29	Oil's Wood River, III. refinery proposed	Sept	22	9	(chart)	Dec	15	23
Distribution of stock of Amchem Products approved		10	29	Ethylene unit in Deer Park, Tex	Sept	29	44	Squibb Institute for Medical Research— Ondetti, Miguel A., director: His 'tempo-			
UC acquisition of Amchem Products in		10	29	Fitzsimmons at NACA meeting dis- cusses pesticides' regulatory road-				rary' job blossomed into enzyme	0	00	40
stock swap: tentative agreement reached	July	28	21	block	Oct	6	25	chemistry	Oct Nov	20 17	48
Royal Dutch/Shell-Naphtha for Sin-				French ethylene joint venture is side- lined	Nov	10	57	Staley, A.E. Manufacturing-High-fructose			
gapore plant in return for ethylene N Shell Chemicals U.K.'s LDPE plant at		8	49	Hydrogen peroxide markets (table)	Sept	1	23	corn syrup will be available from De- catur, Ill. plant in Dec.; HFCS plant in La-			
Carrington, Manchester okayed N	Oct	13	49	Shell Chemicals (U.K.) Ltd.—Ethylene plant for U.K.	Dec	1	25	fayette, Ind. expected to be completed	Cont	20	21
Wagner reports to N.Y. security analysts Wagner tells EEC energy outlook bleak.	Oct	6 27	16 20	plant for U.K	Sept	1	25	next summer	Sept	29	21
Werner forecasts good year ahead for				LDPE plant at Carrington, Manchester, okayed	Oct	13	49	Fiber makers bank on upturn in '77 (chart & table)	Nov	3	24
petrochemicals in Europe N Rubberfabriek Vredestein—Restablished .	Dec	8 27	42 23	New projects and expansions Shell Internationale Chemie Maatschap-	Sept	29	27	Standard Oil (Indiana) Amoco Chemicals	1404	3	. 34
Rubicon Chemicals-Aniline market				pij-Walley says Mideast chemical				see under name H-Coal pilot plant in Kentucky	Dec	22	19
recovery has producers studying expan- sion plans (table)	Aug	11	23	production is not a threat to European producers		3	27	Interior Dept. agrees to put off oil shale			
U.S. licensing of the manufacture of				Shell Oil-Acetone plant within Wood				prototype program for a year Pollution control equipment: Oil refinery	Sept	1	12
urethane panels by inverse lamination process	July	7	29	River, Ill. refinery proposed N Interior Dept. agrees to put off oil shale	Sept	22	9	pollution units to be financed with			
Rucker Co.—Merger agreement with NL Industries	Sept	15	16	prototype program for a year	Sept	1	12	revenue-bonds N Standard Oil (Ohio)—EPA's sulfur	Oct	20	9
Ruhrchemie-Barter deal with Australians	Зері			Offshore California oil find	Oct	27	17	emission regulations hit by Sohio N	Nov	17	13
studied N Ruhrkohle AG—Barter deal with Aus-	Aug	11	25	each barrel of petroleum handled by	/			Korea: Process for acrylonitrile plant at Ulsan, S. Korea	July	14	21
tralians studied N		11	25	increasing the proportion that is up- graded into petrochemical products.		10	25	Paraffin wax producer	Aug	25	47
Montan-Consulting see under name Ruhrstickstoff, A.G.—NissImueller says				Roorda discusses nuclear power a	t	22	17	tin slags for processing abroad N		6	13
imports of U.S. phosphates are "causing				Texas A&M symposium Shenandoah Oil—Merger plan with Du-	Sept	22	17	Stauffer Chemical-Anhydrous hydrogen			
grave problems for the European ferti- lizer industry"	July	21	25	Pont collapses	July	21	15	chloride prices	Nov	17	44
lizer industry"	1			market	Oct	20	29	Dividend increase	July	28	27
Chemicals to purchase Blair, Neb., pro- tein additive plant	Aug	18	15	Sherwin-Williams—Fiscal year to beging Jan. 1 instead of Sept. 1	R Dec	22	21	Fire retardants specialists estimate new flammability standards		20	35
Rust-Lick—Warning on oils	Oct	20	20	Mexican peso devaluation results in \$3				Flame retardants and some plasticizers			
Rynco Scientific—Cellulose acetate butyrate (CAB) lenses	July	28	44	million charge against profits Spencer tells N.Y. analysts that the com	Sept	29	18	prices	Oct	27	28
Ryukyu Cement Co., Ltd.—Kaiser Cement	1	21	9	pany is to specialize	Nov	24	24	CMRA meeting	Nov	24	90
sells its 46% interest to Ube Industries N	July	21	9	Shin-Etsu Chemical—Acquisition of Ro bintech's 50% interest in PVC produce	-			Ford Motor strike not a matter of great concern to CPI at this time	Sept	22	11
_				Shintech	VIUL I	21	9	Inorganic chemical prices N	Dec	8	14
S				Technology for Danish PVC unit	N Aug	18	26	"Natural" soda ash expansions (chart) . Phosphorus pentasulfide capacity to be		3	14
				plant at Taipei	R Dec	8	43	doubled at Morrisville, Pa. unit.			
SCM Corp.—Capital spending	Oct	13	22	interest to Shin-Etsu Chemical	1 July	21	9	considering new capacity at Mt Pleasant, Tenn	Sept	15	9
Glidden-Durkee Div. reorganized into			47	Shroder Naess & Thomas-Capital		10	04	Sales and earnings, second-quarter	July	21	17
four new corporate units	Oct	6	17	spending plans by all U.S. business Siape—Process for Gabes, Tunisian, com	Oct	13	21	Third quarter	Oct	20	16
International Conference	Oct	13	76	plex	R July	7	42	Heights, III	Dec	8	25
SMBH & Z, Inc.—Bid for ownership o	Nov 9	17	22	Simila—Replica perfumes market	Oct	20	29	Straube asks 'revolution' against over- regulation of pesticide makers—			
SNI-Belgium develops process to	r			covered near Barcelona	V Sept	29	34	NACA meeting	Oct	6	25
chemical waste disposal	July	28 14	42	Skelly Oil—Getty Oil to acquire the remain ing stock R July 28-26	R Nov	17	22	UC's PVC dispersion resins business	Suly	21	13
St. Joe Minerals—Lead outlook	Sept		22	Smith & Brook—Price-fixing suit agains potash producers in the U.S.	st N July	21	20	bought	Sept	15	36
St. Regis Paper—Sex bias charged	Dec	8	20	Smithkline Corp.—Dexamyl am	-	21	20	fluid-bed unit will be built to burn coal. N	Aug	25	44
Salsbury Chemical—Deodorant formula tions		8	32	phetamine: request for a hearing on proposed ban by FDA turned down		1	10	PFBC processes to be tested	Sept	22	24 36

Stenan Chamical Co. Cach purchase of a				Tannaga Ing. Alanka offers Tannaga sur				Toursta Sada Ma Co. Chiaranasa sub			
Stepan Chemical Co.—Cash purchase of a majority interest in Industries Chimiques					Nov	24	19	Toyota Soda Mfg. Co.—Chloroprene rub- ber plant	Aug	11	28
	Aug	18 29	15 15	Anaconda merger with ARCO near Tenneco Oil—Explosion at Chalmette, La.,	July	14	20	Tracor Jitco—Battelle will study cancer potential of chemicals N	Aug	18	23
Phthalic anyhydride capacity increase at	Sept			refinery's ethyl benzene fractionating				Trans-Alaska Pipeline System (TAPS)—	Aug	10	23
Hillsdale complex, Joliet, III N A Phthalic anhydride prices N S	Aug		17 40	tower	Aug	18	15	Alaskan oil pipeline due for '77 startup	holis .	7	19
Sales and earnings: six-months '76 (ta-	зері		40	Negligence suit filed by the family of a workman killed	Aug	25	23	Transcontinental Gas Pipe Line-Conoco	July	,	19
	Aug	11	15	Tennessee Gas Pipeline Co.—Alaskan				Coal Development Co. see under name Natural gas pipeline in Gulf: FPC okay			
FDA plans to limit dosage N	Dec	1	10	proposed pipeline routes: company not committed	Nov	24	19		Aug	14	9
Over-the-counter pain relievers: FDA	Mou	2	17	Tennessee Gas Transmission—Conoco				Treplica of America—Replica perfumes	Oct	20	29
Stevens, J.P. Co.—May be ordered to call	Nov	3	17	Coal Development Co. see under name Terra Chemicals International—Nitrogen				market		8	48
off its long-standing battle to resist	Leafter.	14	22	plant in Woodward, Okla R	Dec	22	21	Tuli-Latus Perfumes Ltd.—Replica			
unionization of its mills	July	14	23	Purchase of Blair, Neb., protein additive plant from Ruminant Nitrogren					Oct Oct	20 13	29 50
German coal mining know-how to U.S.	A	10	22	Products	Aug	18	15				
FBC pilot plant S	Aug Sept	18 22	23 24	Tesoro Petroleum—Merger talks with Corco shelved	Nov	3	18	U			
Story Chemical—Bankruptcy reprieve				Texaco-Capital spending: world capital		24	19	U			
sought: company trying to work out a management agreement with an				and exploration expenditures in '77 N Ethylene plant in Port Arthur, Tex	Nov Sept	29	44				
unidentified firm that would enable Story to resume operations	Aug	11	14	Freeport drilling in the inland coastal waters of Louisiana in hopes of				Ube Industries-Acquisition of Kaiser Ce-		0.4	0
Metallgesellschaft A.G. interested in				developing a new Frasch sulfur				ment's 46% interest in Ryukyu Cement N Uhde, Friedrich—Ammonia plant design	July	21	9
buying all physical assets	Dec	8	17	property N Texas American Oil—United Refining's	Aug	18	9	for a floating vessel N Oct 13-71	Nov	24	70
shape up for Singapore N S	Sept	8	49	Osceola Refining Div. assets to be				Phosphoric acid plant at Bandirma, Turkey N	Oct	20	31
Ethylene plant at Chiba to use butane as 10-15% of its feedstock N	Oct	13	49	purchased	Sept	22	17	Turkish fertilizers complex contract N	Oct	20	31
Sumitomo Chemical America-President	OCI	10	43	Coal Development Co. see under name				Uhe, George Co., Inc.—Add xylitol marketer—letter	Oct	6	5
Toshihiko Tohno: He's helping Japanese chemical giant get off the ground in U.S.	July	28	48	Gas conspiracy hinted: FPC's Zimmet calls for a Justice Dept. antitrust inves-				Union Camp-Market plans: Kinney, Jr. at		17	20
Sumithion phosphorothiolate for	July			tigation	Aug	25	24	San Francisco security analysts meeting Sales and earnings, third-quarter	Nov	17	20 16
budworm control	Nov	3	18	Texas Instruments—Bubble memories: Researchers fabricate new synthetic				Union Carbide-Acquisition of the			
for China N	Nov	17	27	crystals for bubble memory data				domestic Simoniz products business from Morton-Norwich N	Nov	10	19
Sun Chemical—Muskegon, Mich. will be	Cont	15	51	storage	Oct	6	41	Acquitision of Rorer-Amchem's			
Sun Co.—Burtis, Theodore A. president:	Sept	15	51	buys stock	Dec	15	15	Amchem Products subsidiary in stock swap: tentative agreement reached	July	28	21
	Nov	17	56	Debenture market	Dec	15	15	Amchem Products merger with UC R	Nov	10	29
Sharbaugh at AIChE calls for a reap- praisal of government regulation of in-				EPA's underground injection limits may doom Frasch mining N	Dec	22	40	Antifreeze market: Back to hard sell Awards \$40 million in contracts to	Oct	13	38
Sun Oil—Offshore Atlantic lease bids N	Sept	8 25	54 27	Kennecott-Peabody divestiture Aug 11- 14, Sept 29-17, Oct 13-23, R Oct 20-				McKee	Oct	13	17
Sun Pantry-Kit for drying fruits and	Aug			20	Dec	8	18	cate new synthetic crystals for bubble			
vegetables	Aug	25	47	"Natural" soda ash expansions (chart) . Project near Green River, Wyo., to make	Nov	3	14	memory data storage	Oct	13	41
addition to Toledo, O., refinery R	July	28	27	1 million tons/year of soda ash from				Capital spending	OCI		
Sunbeam—Smoke detectors market Sunkyong-Teijin Ltd.—Japanese reduce	Dec	22	30	trona ore	Oct	13	26	Cleveland	Oct	27	21
interest	Aug	18	27	foreign government involving potash	_			Clinical diagnostics market	July		
Superior Tube—Bids for Williams & Co Surface Technology Co.—Plating-on-plas-	Oct	6	20	sales reported	Dec	11	18 19	may be acquired N	Oct Dec	6 15	13
tics technology eliminates precious-				Texfi—Fiber makers bank on upturn in '77				Coalcon takeover completed N Project is being re-evaluated N	Dec	22	40
metal catalysts N Sybron Corp.—Taylor Instruments'	Nov	24	76	(chart & table)	Nov	3	34	Credits: domestic lines of credit to be		8	28
process control equipment	Sept	29	29	clopentadiene additive to prevent				upped	Dec	15	5
Syngas co.—Contracts with Air Products for gases	Sept	29	11	Crystallization	Aug	11	20	Dehydrogenation of ethylbenzene to styrene	Nov	17	34
Synthesis gas, methanol, acetic acid				waste disposal battle (table)	Dec	8	65	Dispersion resins business sold to Stauf-	1404	11	04
plant near Deer Park, Tex. planned . N Syntex Corp.—Arthritis drug, Naprosyn,	Sept	29	11	Thatcher Glass—PE-coated bottles Thermo Electron Corp.—Diethanol-	Aug	25	41	fer; dispersions plant at South Charleston, W. Va. to shut	Sept	15	36
faces FDA recall order N	Aug	18	10	nitrosamine: Warning on oils :	Oct	20	20	Disposable diapers, Drydees, produc-			
FDA hearing requested R Fisons claims Syntex unit failed to fulfill	Oct	13	26	Pesticide testing	Sept	29	18	tion dropped N Emulsion polymer expansion at latex	Nov	10	19
	Nov	3	20	make urethanes plasticizers and oligomers at Moss Point, Miss., complex				plants in Atlanta, Dallas and N.Y N	Aug	4	19
memories: Researchers fabricate new					July	7	22	Emulsion polymer prices N Engineering thermoplastic Radel, poly-	Sept	8	55
synthetic crystals for bubble memory data storage	Oct	6	41	Ventron acquisition: Thiokol makes tender offer for common stock R		4	16	phenylsulfone material N	Oct	6	36
—	001	0	4.	Thickel to make better bid N	Aug	11	9	Ethanolamines and ethylenamines ex- pansion in Texas	July	7	17
				Ventron management endorses Thiokol's \$44/share bid; Aquitaine				Ethylene expansion in Ponce, Puerto	Sept	29	44
				withdraws offer	Aug	18	14	Rico N	Dec	8	28
TCP Industries—Puerto Rican venture to	Oct	13	26	3M Co.—Sex discrimination suit filed Nov 17-19	Dec	8	20	Flush 'n Fill Kit	Nov	10	78
TRW/IRC Potentiometers—Mysterious ill-	OCI	10	20	Thyssen-Bornemisza—Indian Head see				concern to CPI at this time	Sept	22	11
nesses in electronics plants continue to baffle health authorities; another plant				under name Thyssen Mining International—Consortium				Gulf Coast Olefins, new company set up with Soc. Financiere Eunopeenne	Sept	29	44
has been added	Oct	27	23	will bring German coal mining know-how		18	23	Haaga on ethylene markets	Sept	29	41
complex cuts imports, raises exports . N	Oct	6	31	to U.S	Aug	10	20	Isopropanol capacity at Texas City, Tex., to be boosted	Sept	1	9
Tebodin—Mercaptan unit for Pennwalt's Vondelingenplaat plant	-			monia plant would be mounted on a barge N Oct 13-71	Nov	24	70	Linde Div. complex in Tonawanda, N.Y.		20	0
Techmashimport—Speichim will build bis-	Dec	15	17	Tiofine-Titanium dioxide waste disposal		24		to expand technical facilities N Linde Div. opens oxygen plant in Burns		22	9
phenol plant N	Sept	15	21	battle (table)	Dec	8	65	Harbor, Ind	Sept	29	21
Technip (France)—Ethylbenzene dehy- drogenation technology	Nov	17	34	ble battle (table)	Dec	8	65	Liquid crystal mixes as the melt material for spinning fibers	Nov	24	81
Technip/SD Plants—Hydrolyzer stripper				Titanium Metals Corp. of America—Dis- cussions regarding titanium metal pric-				Lubricant prices N	Sept	1 24	22 72
unit: Urea plants use stripper towers to meet pending EPA standards, recycle				ing held with competitors	Dec	22	19	Murray at MCA 'toxics era' symposium . Nitrosamines traces found in Ucon fire-	INOA	24	
ammonia	Oct	6	33	Tokuyama Soda—lon-exchange mem- brane for chlorine and caustic soda				resistant hydraulic fluid	Dec	15	16
Pan granulation process may go to work in urea plant	July	28	28	production tried N	Nov	10	61	components operations fire inquiry	Nov	3	17
Teijin Ltd.—Japanese synthetic fiber makers reduce their stake in Asian joint				Tong Hwa Synthetic Fiber—Mitsubishi decreases its shares	Aug	18	27	Operations committee being formed: president-elect Anderson will head			
ventures Polyester fiber plant to China N	Aug	18	27	Tongsuh Petrochemical—Acrylonitrile	9			group	Dec	8	17
Polyester fiber plant to China N Tenneco Chemicals—Activated-carbon	Nov	17	27	plant at Ulsan, S. Korea, planned R Toray Industries—Computerized real-time	d July	14	21	Polyalkylene glycol fluids prices N Polyols prices	Sept Nov	24	22 31
adsorption for VC emission control; one				simulator, called Traspo, to train opera-	-	10	61	PVC cutback	Sept	15	36
of several methods producers are licensing	Aug	11	35	tors at chemical plants N Fiber makers cutting production	Nov	10	61 30	PVC markets (tables)	Sept	15	34
Cosorb technology is ready for recover-	9		-	Japanese synthetic fiber makers reduce		18		W.Va., reactivated	Sept	8	55
ing ethylene following commercial success with carbon monoxide	Dec	15	1	their stake in Asian joint ventures Toyo Engineering—Contract for Yo-Su pet		10	27	Pyrolysis fuel oil has been found to cause cancer in mice	Aug	25	44
Jentra technology leased to Compo in-				rochemical complex in South Korea . N	V Oct	27	27	Reverse-osmosis pilot unit at Puerto		20	
dustries N Market plans: Scott at N.Y. security analysts	Aug	25	40	Korean terephthalic acid plant N Toyoba—Fiber makers cutting production	Nov Nov	17	62 30	Rican plant to turn organic chemica effluent into feedwater for high-			
analysts	Nov Sept	17 15	20 37	Toyota Motor—Auto sales boost synthetic rubber market	C	11	27	Pressure boilers	July	14	31 50
TV doubli at rasauciid, 16%	Jehr	15	31	robbo market	Aug	- 11	2.1	and design dutlook	OCI	13	00

Sales and earnings: 1976 earnings pro-				UOP inc.—Catalyst, three-way	Sept	8	76	American Optical see under name			
jections	Nov	24	26	Dividend, third-quarter	July	28	27	German drugmakers feel pressure	Dec	15	25
ammonia from solid waste R	Sept	29	21	lenes could give Alaska crude eco-				Softcon, soft-contact lens	July	28	44
Sevin, carbaryl insecticide patent			-	nomic advantagesN	Nov	17	43	Waste Management Inc.—New Orleans	outy	2.0	
dropped	Oct	20	18	Process Div. to design refinery near				dedicates solid-waste recovery system.			
Sevin-4-Oil for budworm control	Nov	3	18	Multan, Pakistan R	Oct	27	25	dubbed Recovery I N Welch Foods, Inc.—Anthocyanin extract	July	28	28
Silicone fluids prices N Silicone surfactants prices N	Oct Dec	6	24	Upjohn—Contributions: additional \$1.4				Welch Foods, Inc.—Anthocyanin extract	Aire	4	22
Silicones plant in Sistersville, W.Va. to	Dec	0	20	million in overseas contributions admit-	Aug	11	14	derived from grape juice	Aug	4	22
get silanes unit N Sept 22-9 N	Oct	13	17	ted	Oct	6	20	'77 (chart & table)	Nov	3	34
Sneath, William S. named chairman and				President Hubbard, Jr., reports to				Wesley-Jessen-Hydrogel lenses	July	28	44
chief executive officer	Nov	3	18	Boston security analysts	Oct	6	16	West Chemical-lodophor disinfectants	-		
Sodium acetates, acetic acid, anhydride prices	Sept	15	33	Triazolam, benzodiazepine hypnotic tradenamed Halcion	Dec	22	46	and iodide feed additives West Coast Transmission Ltd.—Seeking	Dec	1	24
Tax reform bill provision	Sept	29	15	Uranium Enrichment Associates—	Dec	22	40	approval to build a gas pipeline from			
Toxicological testing	July	21	13	Gaseous diffusion plant	July	21	33	Suzunka-Grizzly Valley area to link up			
Toxicological testing Young at Adhesives and Sealant Council	-			Uranium Institute-Documents alleging				with its pipeline at Willow Flats	Dec	22	35
seminar	Oct	27	39	price-fixing by a uranium cartel are sent			0.4	Western Mining Corp. Ltd Considering a			
Union Carbide Europe—European invest- ment program: Stephenson says Eu-				to Justice Dept	Sept	8	24	consortium to enrich uranium	July	. 21	33
ropean market offers chance to build a				business: centrifuge plants	July	21	33	Western Nuclear—Spokane Indian Re- servation development of Sherwood ura-			
leading position	Nov	3	26	USV Pharmaceutical Corp.—Antibiotic				nium ore body gets OK	Oct	13	17
Union Corp.—American Optical to				doxycycline marketing will be dis-				Western Zirconium Inc.—Zirconium com-			
produce soft-contact lens at Fram-	Sept	29	21	continued	Oct	27	25	plex joint plan	Aug	11	9
ingham, Mass. facility	July	28	44	tion fails to get Justice okay	Aug	4	14	Westinform—Sulfur forecast	Aug	18	19
Union Electric CoEPA approval of	outy	20		Justice Dept, won't block merger	Oct	13	26	Westinghouse Electric Co.—Batteries for electric vehicles (table)	Dec	1	31
Missouri's SO2 control standards				Merger approved	Dec	22	21	Burnham at ISA meeting says that	Dec		31
challenged: Supreme Court decision				Merger approved				productivity is vital ingredient in			
says company that wants to challenge				divestiture Aug 11-14	Sept	29	17	leadership	Oct	20	36
the feasibility of a state's air pollution control standards is going to have to do it								PODS phase-out plan	Oct	13	24
at the state level	July	7	22					Uranium: Counters breach of contract			
Union Explosivos Rio Tinto-Tarragona	00.,			V				claims in uranium, charges price-fix-	Oct	27	23
Quimica S.A. see under name								Weverhaeuser Co.—Capital spending	Oct	27	21
Union Oil Co. of California-Uranium	0	00						Wheaton Industries-Plastic-coating ma-			
production venture	Oct	20	9	Valley Nitrogen Producers—Acquisition of				chine for Chattanooga Glass	Aug	25	41
threatens to cancel Uniroyal government				Hercules' nitrogen facilities in Hercules, Calif. N Sept 8-17 R	Oct	13	26	Whiting Corp.—Caustic evaporator system	July	7	24
contracts and bar the company from				Varian Associates—Microprocessor based	OCI	10	20	for Polimex-Cekop	July	1	24
bidding on government work Aug 18-13	Dec	8	20	instruments	Aug	18	25	antiperspirants	Dec	8	29
Mexican peso float will reduce earnings	Sept	29	18	Veba-Joint-venture refineries with Norwe-				Williams & Co.—Superior Tube bids for			
Rubber workers strike July 7-21, July 14-23, Aug 11-16, Aug 18-13, Aug				gian companies in Norway N	Sept	1	25	acquisition	Oct	6	20
25-23	Sept	1	13	Velsicol Chemical—Leptophos pesticide:	Dec	8	25	Williams Companies bids for all the com-	Oct	6	20
Settlement talks deadlocked	Sept	8	13 23	NIOSH seeks data	000	0	20	mon shares	OCI	0	20
Agreement reached	Sept	15	14	SHULDOWN	Dec	15	18	Williams & Co	Oct	6	20
Uniroyal Ltd. (Canada)—Strike in Kitchener, Ont., agreement rejected	July	7	21	merger with Michigan Chemical; result-				Kennecott Copper plans to sell Peabody			
United Energy Resources—Cotton Petro-	July	,	21	ing company will be called Northwest	Mari	3	17	Coal to a consortium R	Oct	20	20
leum acquisition possible N	Sept	29	11	Chemco	Nov	3	17	Peabody terms told	Dec	8	18 15
United Gas Pipe Line Co.—United Energy				complexes	Dec	15	33	Williams Pipe Line—Crude oil expansion	Aug	1.1	15
Resources see under name				Thiokol makes tender offer for common				includes a new pipeline section from			
United Refining—Osceola Refining Div. assets to be bought by Texas American				stockR	Aug	4	16	lowa to Minnesota	Aug	11	16
Oil	Sept	22	17	Thiokol to make better bid N Ventron management endorses	Aug	11	9	Winzen Research-Hefium-filled pol-	A	4	10
U.S. Industrial Chemicals—HDPE: Moffett				Thiokol's \$44/share bid: Aquitaine				yethylene balloon	Aug	4	16
predicts sales N	Dec	15	29	withdraws offer	Aug	18	14	surfactants plant reactor explodes R	Sept	15	16
U.S. Steel-Atlantic Richfield uranium	Dec	15	9	Viking Chemical—Epoxides plant at				Taft, La., additives unit expansion R	Oct	27	25
properties and plant purchased N Benzene prices N	Oct	20	25	Blooming Prairie, Minn	Aug	4	16	WonderBrix Inc.—'Bricks': WonderBrix is			
Clairton Works coke cleanup costly	Oct	20	18	Vinings Chemical—Small Southern firm takes to Europe with its papermaking				applied over tape matrix, which is pulled	techn	00	27
Layoffs stemming from strikes at com-				specialties	Sept	15	39	off, leaving 'mortar' line	July	28	37
pany-owned coal mines: Supreme				Virginia Chemicals-Sodium bisulfite				tion see under name			
Court will decide whether a state may				prices N	Nov	24	31	Wrigley—Xylitol-containing chewing gum	Aug	18	31
refuse to pay unemployment com-	Oct	13	24	Stock, three-for-two split R July 28-27 R Vistron—Nitrile bottle market		4 25	16	Wyeth Laboratories—Flu vaccine shortfall	Sept	15	15
pensation		29	40	Vredestein—Akron meeting of Dutch	Aug	25	41	More vaccine coming	Sept	22	14
Speer at N.Y. Soc. of Security Analysts:				government officials and Goodrich	1			Rabies vaccine	Dec Oct	20	20
High hopes for '77	Dec	15	19	representatives ends without an	1			wym on waning or old	OCI	20	20
Sundra says excess capacity will plague	Sept	29	21	agreement on the future of Vredestein	July	14	21				
polystyrene producers through 1980. USS Agri-Chemicals Div.—Bartow	Sept	29	21	Closer on Dutch accord	July	28	22				
Chemical Products see under name				Vulcan Materials—Chloromethanes unit in Wichita, Kan., due onstream in late '77 N	July	7	17	V V =			
USS Agri-Chemicals Div.'s president C.M. (Max) Henderson: He plans to				Methylene chloride expansions	July	14	39	XYZ			
C.M. (Max) Henderson: He plans to	-	4.5	40		,			_			
keep on pampering his customers	Dec	15	48	***				Wareful Laboratory and the same			
USS Chemicals—Benzene-based maleic anhydride expansion	Oct	13	79	W				Xyrofin Ltd.—Joint venture in xylito	1. dec	14	27
Polystyrene prices N	Sept	8	55					yulgibar Exploration—Australia asbestos	July	14	37.
Polystyrene prices N United Technologies Corp.—Power plant								find looks promising	July	28	42
will demonstrate electricity generation by			00	W. & F. Mfg. Co.—Paraffin wax producer .	Aug	25	47	find looks promising	P Dec	8	43
fuel cells	Aug	18	23	Walworth Valve—Soaring insurance costs	3			Zoecon Corp.—Juvenile hormone for	r		
shares	Nov	17	22	for liability coverage concern manufac- turers	Sept	22	32	budworm control	Nov	3	18
Unitika—Fiber makers cutting production .		17	30	Warner-Lambert-Acquisition of Deseret	t	22	32	ment for silkworms to be marketed . F	Sent	29	21
Universal Leaf Tobacco Co.—Congoleum	1			Pharmaceutical Co	Dec	15	19	Zuari Agro Chemicals Ltd.—Stripping	9	20	
Corp.'s tender offer for 4.7 million		40	20	American Chicle Div. gum plant in Long)			tower for Indian plant will reduce urea			
outstanding shares of common stock . R	NOV	10	29	Island City, N.Y. explosion	? Dec	1	18	ammonia discharges below 20 ppm	Oct	6	33

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